

**Flood Control Project Maintenance
Levee Inspections**

Fall 2016 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

RD1500	Overall LMA Rating	Total LMA Miles	* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.					
Reclamation District No. 1500 Sutter Basin	M *	53.87						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	1.77		1.77	3.29%	0.09			
Trim / Thin Trees	0.02	0.01	0.06	0.11%				
Encroachments	0.06		0.06	0.11%	4.77	0.01		
Animal Control	0.07	0.04	0.23	0.43%				
Erosion / Bank Caving	0.03		0.03	0.06%				
Underseepage Relief Wells		0.01	0.04	0.07%				
<i>Supplemental</i>								
2015 USACE Erosion Survey, DRAFT	1.10		1.10	2.04%				
DWR UCIP Field Study					0.48	0.01		
<i>LMA Totals:</i>	3.05	0.06	3.29	6.11% *	5.34	0.02	0.00	0.00
Unit No. 01 Sacramento River LB	Overall Unit Rating	Total Unit Miles	* Overall Unit Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall Unit Rating is M instead of A.					
RD1500	M *	33.15						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	1.77		1.77	5.34%	0.09			
Trim / Thin Trees	0.02	0.01	0.06	0.18%				
Encroachments	0.03		0.03	0.09%	4.77	0.01		
Animal Control	0.07	0.04	0.23	0.69%				
Erosion / Bank Caving	0.03		0.03	0.09%				
<i>Supplemental</i>								
2015 USACE Erosion Survey, DRAFT	1.10		1.10	3.32%				
DWR UCIP Field Study					0.48	0.01		
<i>Unit Totals:</i>	3.02	0.05	3.22	9.71% *	5.34	0.02	0.00	0.00
Unit No. 02 Sutter Bypass RB	Overall Unit Rating	Total Unit Miles	* Overall Unit Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall Unit Rating is M instead of A.					
RD1500	M *	20.72						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Encroachments	0.03		0.03	0.15%				
Underseepage Relief Wells		0.01	0.04	0.19%				
<i>Unit Totals:</i>	0.03	0.01	0.07	0.34% *	0.00	0.00	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2016 Levee Inspection Results

Reclamation District No. 1500 Sutter Basin

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)			M *	

** Non-receipt of Summer or Winter Inspection
Reports may effect overall annual rating.

* Overall LMA Threshold Percent is less than
10.00%; however, U Rated Miles are present,
so the Overall LMA Rating is M instead of A.

† SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Reclamation District No. 1500 Sutter Basin

Waterway			Bank	Unit Miles
Unit No. 01 Sacramento River			Left	33.15
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M *	
Date of Inspection	3/9/2016 - 3/10/2016		9/20/2016 - 9/21/2016	
DWR Inspector	Jai Lor		Oleg Yakimov	
Accompanied By			George (Wade) Wylie	

* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- completion of the inspection
- any changes other than the results of normal maintenance
- corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start		Rating **	A	Issue No.	9
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_RD1500_01_s_2013_9				
Comment Code					
Inspector Comment					
RD 1500 has their O&M Manual.					

No Photos

LM Start		Rating **	A	Issue No.	55
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_RD1500_01_s_2013_55				
Comment Code					
Inspector Comment					
RD 1500 maintains a stockpile of flood response material.					

No Photos

LM Start		Rating **	A	Issue No.	61
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_RD1500_01_s_2013_61				
Comment Code					
Inspector Comment					
RD 1500 is current with it's flood response plans and training.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	0.07	Rating **	M	Issue No.	137
LM End	0.07	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.761077 °	38.761077 °
				-121.675851 °	-121.675851 °
DWR ID	DWR_RD1500_01_f_2016_137				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1500_189_137_20160926_00274.jpg



A tree on landside slope needs trimming. Fall 2016.

LM Start	0.19	Rating **	C	Issue No.	126
LM End	0.19	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.761650 °	38.761650 °
				-121.677950 °	-121.677950 °
DWR ID	DWR_RD1500_01_s_2016_126				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Tree branches are broken and on the levee slope.					

No Photos

LM Start	0.19	Rating **	M	Issue No.	136
LM End	0.19	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.761678 °	38.761678 °
				-121.677946 °	-121.677946 °
DWR ID	DWR_RD1500_01_f_2016_136				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1500_189_136_20160926_00273.jpg



Prunings on landside slope. Fall 2016.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	0.31	Rating **	M	Issue No.	2583
LM End	0.31	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.763210 °	38.763210 °
				-121.679017 °	-121.679017 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:28183 DS_ID:20032 EP_NO: 1566A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - soil erosion around headwall on waterside.- pump was removed.- overhead powerline. FIELD_STRUCT_DESC: 10-inch steel irrigation pipe through levee, 5.0 feet below crown. Pump and switch panel on waterside berm. Service pole on waterward shoulder. Siphon breaker on landward slope. A 3-foot by 4-foot concrete distribution box at landward toe (App. No. 1566A White) O&M Manual Sac 128, March 1960. FS Date: 1/9/2014					

Photo 1 of 2 : UCIP_FA_2016_28183_51845.jpg



WS view: concrete blocks headwall and pump on river bank. Pump has been removed (marked). Surface erosion around headwall.

LM Start	0.31	Rating **	M	Issue No.	2583 (cont)
LM End	0.31	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_28183_51844.jpg



LS view: pressure breaker (bottom) in steel pipe riser and concrete distribution box on levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	0.32	Rating **	M	Issue No.	135
LM End	0.32	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.763267 °	38.763267 °
				-121.679050 °	-121.679050 °
DWR ID	DWR_RD1500_01_f_2016_135				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1500_189_135_20160926_00272.jpg



Rodent activity on LS slope. Fall 2016.

LM Start	0.49	Rating **	M	Issue No.	134
LM End	0.49	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.764497 °	38.764497 °
				-121.681867 °	-121.681867 °
DWR ID	DWR_RD1500_01_f_2016_134				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1500_189_134_20160926_00271.jpg



Rodent burrows on LS slope. Fall 2016.

LM Start	0.56	Rating **	A/W	Issue No.	72
LM End	0.82	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.764462 °	38.764638 °
				-121.683167 °	-121.687690 °
DWR ID	DWR_RD1500_01_s_2012_72				
Comment Code					
V8 : Environmental Requirements.					
Inspector Comment					

Photo 1 of 2 : FA_2016_RD1500_189_72_20160913_00044.jpg



View of the revegetation site on the waterward side toe of the levee looking upstream. Spring 2016.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

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Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	0.56	Rating **	A/W	Issue No.	72 (cont)	
LM End	0.82	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			38.764462 °		38.764638 °
				-121.683167 °		-121.687690 °
DWR ID	DWR_RD1500_01_s_2012_72					
Comment Code						
V8 : Environmental Requirements.						
Inspector Comment						

Photo 2 of 2 : FA_2016_RD1500_189_72_20160913_00045.jpg



Sign is located at the toe of the levee on the waterward side. Spring 2016.

LM Start	0.77	Rating **	C	Issue No.	130
LM End	0.77	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.764286 °	38.764286 °
				-121.686873 °	-121.686873 °
DWR ID	DWR_RD1500_01_s_2016_130				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Some depression can be seen on the levee through the vegetation and seems that it may have been caused by a vehicle.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	1.29	Rating **	M	Issue No.	2561	
LM End	1.29	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.769697 °	38.769697 °	
				-121.691024 °	-121.691024 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:28903						
DS_ID:20094						
EP_NO: 10080						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Pump removed from concrete pad and kept inside pump house (may be for storage purpose) on waterside.A 8-inch steel pipe inside 14-inch pipe.						
FIELD_STRUCT_DESC: 14-inch steel irrigation pipe through levee, 5.2 feet below crown. Pump on river bank. Butterfly valve on waterward side. Concrete stairway on waterward slope. 1-3/4-inch galvanized iron waterline with tap exposed on landward slope 3.4 feet below crown. 4 foot by 5.1 foot concrete distribution box at landward toe. 1-1/4-inch conduit through levee, 2.0 feet below crown. (ABO No. 10080 - Yturalde)						
FS Date: 1/9/2014						

LM Start	1.29	Rating **	M	Issue No.	2561 (cont)
LM End	1.29	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_28903_53162.jpg



WS view: pipe (left), pump house/store, and concrete steps.

Photo 2 of 2 : UCIP_FA_2016_28903_53161.jpg



WS view: U type headwall and 8-inch pipe sleeved into 14-inch steel pipe. Pump was removed from the pipe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	1.29	Rating **	M	Issue No.	2562
LM End	1.29	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.769698 °	38.769698 °
				-121.691023 °	-121.691023 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:28905					
DS_ID:20095					
EP_NO: 10080					
Repair Type: Non-Urgent					
Crossing Status: Not Found					
UCIP Comments: - an electrical conduit for the pump- 1-3/4-inch galvanized iron waterline with tap exposed on landward slope 3.4 feet below crown not found.Included in Record No. 20094.					
FIELD_STRUCT_DESC: 2 of 2: 14-inch steel irrigation pipe through levee, 5.2 feet below crown. Pump in CM pump house on waterward slope. Butterfly valve on waterward side. Concrete stairway on waterward slope. A 4 foot by 5 foot concrete distribution box at landside toe. A 1-1/4-inch conduit through levee, 2.0 feet below crown. (ABO No. 10080 - Yturralde)					
FS Date: 1/9/2014					

No Photos

LM Start	1.33	Rating **	M	Issue No.	4
LM End	1.33	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.770023 °	38.770023 °
				-121.690575 °	-121.690575 °
DWR ID	DWR_RD1500_01_s_2012_4				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Retaining wall built into the levee.					

Photo 1 of 1 : FA_2016_RD1500_189_4_20160913_00004.jpg



View of the retaining wall that is in USACE as-builts on the landward side of the levee looking upstream. Wall cuts into levee toe. Spring 2016.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	1.34	Rating **	A/W	Issue No.	6
LM End	1.95	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.770390 °	38.777282 °
				-121.690553 °	-121.685841 °
DWR ID	DWR_RD1500_01_s_2016_6				
Comment Code					
Inspector Comment					
2006 - New erosion upstream, new bank failures near levee but still fairly wide berm in most places. 2008 - Large berm, questionable as to if it should remain in the inventory. 2010 - Minor new erosion, old cobble starting to fail. 2011 - Cobble continues to unravel and additional slumping. 2012 - Minor new erosion at bank mid point. 2013 - Minor new erosion. 2015: No observed changes. [2015 Site ID: SAC 86-3 L]					

Photo 1 of 1 : FA_2016_RD1500_189_6_20160913_00006.jpg



USACE 2013 Photo #1

LM Start	1.63	Rating **	M	Issue No.	2584
LM End	1.63	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.772862 °	38.772862 °
				-121.686453 °	-121.686453 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:28204					
DS_ID:20033					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: - pump removed- erosion around pump station.- overhead electrical line.					
FIELD_STRUCT_DESC: 10-inch diameter steel irrigation pipeline through levee, 10.0 feet below crown. Pump and gate valve on bank.					
Service pole and switch panel on waterward shoulder. Pipe crosses irrigation ditch and discharges into steel distribution box on the field.					
FS Date: 1/9/2014					

Photo 1 of 2 : UCIP_FA_2016_28204_51875.jpg



WS view: Service pole with control panel on levee shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	1.63	Rating **	M	Issue No.	2584 (cont)	
LM End	1.63	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.772862 °	38.772862 °	
				-121.686453 °	-121.686453 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:28204						
DS_ID:20033						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: - pump removed- erosion around pump station.- overhead electrical line.						
FIELD_STRUCT_DESC: 10-inch diameter steel irrigation pipeline through levee, 10.0 feet below crown. Pump and gate valve on bank.						
Service pole and switch panel on waterward shoulder. Pipe crosses irrigation ditch and discharges into steel distribution box on the field.						
FS Date: 1/9/2014						

Photo 2 of 2 : UCIP_FA_2016_28204_51874.jpg



WS view: pump (removed) and inlet pipe on river bank.

LM Start	1.96	Rating **	M	Issue No.	2585	
LM End	1.96	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.777433 °		38.777433 °
				-121.685348 °		-121.685348 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:28263						
DS_ID:20034						
EP_NO: 16146						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: - pump removed- overhead powerline- pile structure abandoned- levee slope erosion due to leaky siphon breaker on landside.						
FIELD_STRUCT_DESC: 12-inch diameter steel pipe through levee, 12.0 feet below crown. Pump mounted on river bank, butterfly valve on waterward side. Power pole with one anchor on waterside slope. Pump discharges into 5 foot by 5 foot concrete distribution box (damaged) across the irrigation ditch on the landside. (Cat. I Furlan) (App. No. 16146) O&M Manual Sac 128, March 1960.						
FS Date: 1/9/2014						

Photo 1 of 2 : UCIP_FA_2016_28263_51965.jpg



WS view: Pump (removed and plywood plated), pipe, and gate valve in CMP riser on river bank.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	1.96	Rating **	M	Issue No.	2585 (cont)	
LM End	1.96	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.777433 °		38.777433 °
				-121.685348 °		-121.685348 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:28263 DS_ID:20034 EP_NO: 16146 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - pump removed- overhead powerline- pile structure abandoned- levee slope erosion due to leaky siphon breaker on landside. FIELD_STRUCT_DESC: 12-inch diameter steel pipe through levee, 12.0 feet below crown. Pump mounted on river bank, butterfly valve on waterward side. Power pole with one anchor on waterside slope. Pump discharges into 5 foot by 5 foot concrete distribution box (damaged) across the irrigation ditch on the landside. (Cat. I Furlan) (App. No. 16146) O&M Manual Sac 128, March 1960. FS Date: 1/9/2014						

Photo 2 of 2 : UCIP_FA_2016_28263_51964.jpg



LS view: siphon breaker in CMP riser. Levee slope erosion due to leaky siphon breaker.

LM Start	2.30	Rating **	A/W	Issue No.	2
LM End	2.52	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.781962 °	38.784936 °
				-121.688033 °	-121.690033 °
DWR ID	DWR_RD1500_01_s_2016_2				
Comment Code					
Inspector Comment					
2010 - The upstream end of the repair site at 87.0. Repair did not extend far enough upstream. 2011 - New erosion pockets. 2012 - Minor new erosion at toe. 2013 - Minor new erosion. 2015: Significant new toe erosion. [2015 Site ID: SAC_87-1_L]					

Photo 1 of 1 : FA_2016_RD1500_189_2_20160913_00002.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	2.38	Rating **	M	Issue No.	2586
LM End	2.38	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.783184 °	38.783184 °
				-121.688136 °	-121.688136 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:28264
DS_ID:20035
EP_NO: 10029
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: - pump removed- outlet plugged- looks abandoned. Found abandoned pipe parts on levee slope and berm.- overhead powerline
FIELD_STRUCT_DESC: Abandoned 12-inch steel irrigation pipe through levee, 11.0-feet below crown. Two metal cutoff walls installed. Pump on bank during irrigation season. Gate valve at waterward toe. Discharges into 2.5x2.5 foot concrete distribution box on landward side of irrigation ditch. (ABO No. 10029 - Anderson). O&M Manual Sac 128, March 1960.
FS Date: 1/9/2014

LM Start	2.38	Rating **	M	Issue No.	2586 (cont)
LM End	2.38	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_28264_51971.jpg



WS view: steel pipe, gate valve, and pump (removed) on river bank. Looks abandoned.

Photo 2 of 2 : UCIP_FA_2016_28264_51970.jpg



LS view: discharge pipe crossing irrigation ditch on landside.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	2.54	Rating **	M	Issue No.	963
LM End	3.68	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.785351 °	38.797128 °
				-121.689075 °	-121.691047 °
DWR ID	DWR_RD1500_01_s_2012_963				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1500_189_963_20160913_00082.jpg



View of the ditch at the toe of the landward side of the levee looking upstream. Spring 2016.

LM Start	3.08	Rating **	C	Issue No.	139
LM End	3.08	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.791078 °	38.791078 °
				-121.685563 °	-121.685563 °
DWR ID	DWR_RD1500_01_s_2016_139				
Comment Code					
PR : Prunings					
Inspector Comment					

No Photos

LM Start	3.60	Rating **	M	Issue No.	132
LM End	3.68	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.796433 °	38.797116 °
				-121.689810 °	-121.691008 °
DWR ID	DWR_RD1500_01_f_2016_132				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Levee Inspection Report By Mile - Fall 2016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	3.60	Rating **	M	Issue No.	133
LM End	3.68	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.796434 °	38.797117 °
				-121.689810 °	-121.691004 °
DWR ID	DWR_RD1500_01_f _ 2016_133				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

LM Start	3.69	Rating **	M	Issue No.	131					
LM End	3.69	Issue Type +	En	Location *	WS					
Category	Earthen Levee			GPS Latitude/Longitude						
				Start	End					
Item	Encroachments			38.797152 °	38.797152 °					
				-121.691238 °	-121.691238 °					
DWR ID	DWR_RD1500_01_f_2016_131									
Comment Code										
BU : Building										
Inspector Comment										
Abandoned building										

A photograph of a small, single-story wooden building, possibly a shed or garage, with a corrugated metal roof. The building is surrounded by tall grass and trees. A date stamp '08/21/2016' is visible in the bottom right corner.

LM Start	3.93	Rating **	M	Issue No.	7					
LM End	3.93	Issue Type +	En	Location *	LS					
Category	Earthen Levee			GPS Latitude/Longitude						
				Start	End					
Item	Encroachments			38.797516 °	38.797516 °					
				-121.695645 °	-121.695645 °					
DWR ID	DWR_RD1500_01_s_2012_7									
Comment Code										
BU : Building										
Inspector Comment										

A small, light gray, gambrel-roofed shed or barn is situated on a grassy hillside. The building has two rectangular windows on the front wall and a small square window in the gable. A blue tarp is leaning against the side of the shed. Large, leafy trees are in the background, and a rusty metal post is visible in the foreground.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	3.93	Rating **	M	Issue No.	7 (cont)	
LM End	3.93	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			38.797516 °		38.797516 °
				-121.695645 °		-121.695645 °
DWR ID	DWR_RD1500_01_s_2012_7					
Comment Code						
BU : Building						
Inspector Comment						

Photo 2 of 2 : FA_2016_RD1500_189_7_20160913_00008.jpg



Chicken coupes have been added along the toe of the levee. Spring

LM Start	3.97	Rating **	A/W	Issue No.	8
LM End	3.97	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.797838 °	38.797838 °
				-121.696046 °	-121.696046 °
DWR ID	DWR_RD1500_01_s_2012_8				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Most of the vegetation has been removed. There appears to be new landscaping at the toe of the levee.					

Photo 1 of 2 : FA_2016_RD1500_189_8_20160913_00009.jpg



The landscape is planted into the encroachment zone within 15' of the toe.

LM Start	3.97	Rating **	A/W	Issue No.	8 (cont)
LM End	3.97	Issue Type +	En	Location *	LS

Photo 2 of 2 : FA_2016_RD1500_189_8_20160913_00010.jpg



View of the landscaping on the landward side of the levee looking upstream. Spring 2016.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Reclamation District No. 1500 Sutter Basin

No Photos

No Photos

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	4.01	Rating **	M	Issue No.	2587
LM End	4.01	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.798436 °	38.798436 °
				-121.696280 °	-121.696280 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:28272 DS_ID:20037 EP_NO: 3638 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - No protection for pressure breaker. FIELD_STRUCT_DESC: 12-inch steel irrigation pipe through levee, 2.4 feet below crown. Slant pump on berm. Pressure breaker on landward slope. Service pole at landward toe. Discharges into 36-inch diameter concrete standpipe on landside. (App. No. 3638 - J. Waters) FS Date: 1/9/2014					

Photo 1 of 2 : UCIP_FA_2016_28272_52012.jpg



WS view: slant pump on steel frame on levee berm.

LM Start	4.01	Rating **	M	Issue No.	2587 (cont)
LM End	4.01	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_28272_52011.jpg



LS view: pressure breaker without protection on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	4.02	Rating **	M	Issue No.	54
LM End	4.12	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.798526 °	38.800063 °
				-121.696326 °	-121.696622 °
DWR ID	DWR_RD1500_01_s_2012_54				
Comment Code					
DT : Ditch					
Inspector Comment					
Ditch runs along the toe of the levee.					

Photo 1 of 1 : FA_2016_RD1500_189_54_20160913_00040.jpg



View of the ditch on the landward side of the levee looking upstream.
Spring 2016.

LM Start	4.16	Rating **	M	Issue No.	11
LM End	4.16	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.800548 °	38.800548 °
				-121.696751 °	-121.696751 °
DWR ID	DWR_RD1500_01_s_2012_11				
Comment Code					
BU : Building					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1500_189_11_20160913_00012.jpg



View of the equipment shed on the landward side of the levee looking downstream. Spring 2016.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	4.61	Rating **	M	Issue No.	142
LM End	4.61	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.803509 °	38.803509 °
				-121.703046 °	-121.703046 °
DWR ID	DWR_RD1500_01_s_2016_142				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1500_189_142_20160913_00070.jpg



View of the pruning pile on the landward side of the levee looking upstream. Spring 2016.

LM Start	4.68	Rating **	M	Issue No.	2566
LM End	4.68	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.803025 °	38.803025 °
				-121.704091 °	-121.704091 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:28912 DS_ID:20040 EP_NO: 5031 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: New butterfly valve in CMP riser on waterside slope. New pipe and pump.Needs cleaning and clearing of siphon breaker in CMP on landside.An abandoned 5x5 foot concrete distribution box on landside. Abandoned pipe found on both sides of the levee. FIELD_STRUCT_DESC: 12-inch diameter steel irrigation pipe through levee at slight angle, 4.2 feet below crown. A 2-inch diameter conduit through levee, 2.0 feet below crown. Slant pump on steel platform on berm. (App. No. 5031-Knox.) Discharges into irrigation ditch and an abandoned 5x5 foot concrete distribution box on landside. Pipe originally installed in 1950 under App. No.1466 By Estate of Caroline L. Knox reinstalled by USCE, in 1958; O&M Manual Sac 128, March 1960. FS Date: 1/9/2014					

Photo 1 of 2 : UCIP_FA_2016_28912_53181.jpg



WS view: slant pump and switch panel in shed on levee berm.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	4.68	Rating **	M	Issue No.	2566 (cont)
LM End	4.68	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.803025 °	38.803025 °
				-121.704091 °	-121.704091 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:28912 DS_ID:20040 EP_NO: 5031 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: New butterfly valve in CMP riser on waterside slope. New pipe and pump.Needs cleaning and clearing of siphon breaker in CMP on landside.An abandoned 5x5 foot concrete distribution box on landside. Abandoned pipe found on both sides of the levee. FIELD_STRUCT_DESC: 12-inch diameter steel irrigation pipe through levee at slight angle, 4.2 feet below crown. A 2-inch diameter conduit through levee, 2.0 feet below crown. Slant pump on steel platform on berm. (App. No. 5031-Knox.) Discharges into irrigation ditch and an abandoned 5x5 foot concrete distribution box on landside. Pipe originally installed in 1950 under App. No.1466 By Estate of Caroline L. Knox reinstalled by USCE, in 1958; O&M Manual Sac 128, March 1960. FS Date: 1/9/2014					

Photo 2 of 2 : UCIP_FA_2016_28912_53180.jpg



LS view: obstructed siphon breaker in CMP riser.

LM Start	5.00	Rating **	C	Issue No.	143
LM End	5.14	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.801559 °	38.802006 °
				-121.709574 °	-121.712192 °
DWR ID	DWR_RD1500_01_s_2016_143				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Farmer's crops are at the toe of the levee.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	5.14	Rating **	M	Issue No.	108
LM End	5.14	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.801962 °	38.801962 °
				-121.712118 °	-121.712118 °
DWR ID	DWR_RD1500_01_f _ 2015_108				
Comment Code					
EQ : Equipment					
Inspector Comment					

View of the equipment on the landward side of the levee looking upstream. Fall 2015.

LM Start	5.17	Rating **	C	Issue No.	1340
LM End	5.17	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.802164 °	38.802164 °
				-121.712560 °	-121.712560 °
DWR ID	DWR_RD1500_01_s_2014_1340				
Comment Code					
V7 : Trees / Woody Vegetation					
Inspector Comment					
Monitor tree that may pose a future threat to the integrity of the levee.					

No Photos

LM Start	5.18	Rating **	M	Issue No.	124
LM End	5.35	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.802265 °	38.803346 °
				-121.712787 °	-121.715626 °
DWR ID	DWR_RD1500_01_f_2016_124				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

View of vegetation on WS slope. Fall 2016.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	5.19	Rating **	M	Issue No.	2567
LM End	5.19	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.802322°	38.802322°
				-121.712908°	-121.712908°
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:28913 DS_ID:20041 EP_NO: 10056 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Depression on landside levee slope around siphon breaker due to leakage.Siphon breaker needs protection. FIELD_STRUCT_DESC: 18-inch steel irrigation pipe through levee, 4.0 feet below crown. 1 1/2-inch conduit through levee, 20 ft below crown. Slant pump in CM pump house on waterside. Wooden steps on waterside slope. Siphon breaker on landside slope. A 5 ft x 5 ft Concrete distribution box at landward toe. (ABO No. 10056 - Leiser) O&M Manual Sac 128, March 1960. FS Date: 1/9/2014					

LM Start	5.19	Rating **	M	Issue No.	2567 (cont)
LM End	5.19	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_28913_53184.jpg



WS view: wooden steps to pump house on levee berm.

Photo 2 of 2 : UCIP_FA_2016_28913_53183.jpg



LS view: depression on landside levee slope around siphon breaker due to leakage. Concrete distribution box (top) on levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	5.27	Rating **	M	Issue No.	127
LM End	5.32	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.802862 °	38.803182 °
				-121.714178 °	-121.715141 °
DWR ID	DWR_RD1500_01_f_2016_127				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	5.32	Rating **	M	Issue No.	125
LM End	5.35	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.803181 °	38.803344 °
				-121.715141 °	-121.715616 °
DWR ID	DWR_RD1500_01_f_2016_125				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1500_189_125_20160926_00269.jpg



View of vegetation on LS slope. Fall 2016.

LM Start	5.61	Rating **	M	Issue No.	52
LM End	5.69	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.803067 °	38.803238 °
				-121.720270 °	-121.721847 °
DWR ID	DWR_RD1500_01_s_2012_52				
Comment Code					
BU : Building					
Inspector Comment					
Sting Rayz Beach Boardwalk Marina on the waterside berm.					

Photo 1 of 2 : FA_2016_RD1500_189_52_20160913_00038.jpg



View of Sting Rayzs RV Park on the berm of the waterward side of the levee looking downstream. Spring 2016.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Reclamation District No. 1500 Sutter Basin

View of WS slope. Fall 2016.

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	6.48	Rating **	M	Issue No.	2588
LM End	6.48	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.814501 °	38.814501 °
				-121.723040 °	-121.723040 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:28286 DS_ID:20044 EP_NO: 10074 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Not found- 36-inch concrete standpipe on landside. 2-inch conduit through the levee.Pipe description does not match with field observaion. It needs review and more info from LMA.A capped pipe, air vent, and butterfly valve found on landside toe. But, it is not clear whether these belongs to this crossing. FIELD_STRUCT_DESC: 18-inch steel irrigation pipe and electric conduit through levee, 13.0 feet below crown. Slide gate in 42-inch Corrugated metal riser on berm. Slant pump on steel pump platform on berm. Installed by USCE, 1959. (ABO No. 10074 - TI&T Co.) O&M Manual Sac 128, March 1960. FS Date: 1/9/2014					

Photo 1 of 2 : UCIP_FA_2016_28286_52059.jpg



WS view: CMP riser with slide gate and slant pump on steel platform on levee berm.

LM Start	6.48	Rating **	M	Issue No.	2588 (cont)
LM End	6.48	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_FA_2016_28286_52058.jpg



LS view: a capped pipe on levee toe. It is not clear whether this pipe is connected to the CMP riser on waterside.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	7.15	Rating **	M	Issue No.	217
LM End	7.15	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.824119 °	38.824119 °
				-121.722776 °	-121.722776 °
DWR ID	DWR_RD1500_01_s_2012_217				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1500_189_217_20160913_00081.jpg



View of the trees on the landward side of the levee looking upstream.
Spring 2016.

LM Start	7.15	Rating **	M	Issue No.	2568	
LM End	7.15	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.824208 °	38.824208 °	
				-121.722793 °	-121.722793 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:28923						
DS_ID:20047						
EP_NO: 10048						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: An abandoned pipe. Highly deteriorated pipe on river bank.Needs proper abandonment.Not found- Siphon breaker at landward levee toe.						
FIELD_STRUCT_DESC: *ABANDONED* 10-inch diameter irrigation pipe through levee, 4.5 feet below crown. A 1-inch conduit through levee, 4.5 feet below crown. A pump in metal shed on bank. Gate valve on waterside end. Service pole and 24-inch Concrete standpipe at landside toe. Installed by USCE, 1958 (ABO. No. 10048-King) O&M Manual Sac 128, March 1960.						
FS Date: 1/9/2014						

Photo 1 of 2 : UCIP_FA_2016_28923_53202.jpg



WS view: dilapidated and abandoned CM pump house on berm. Pipe and gate valve also on berm.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	7.15	Rating **	M	Issue No.	2568 (cont)	
LM End	7.15	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.824208 °	38.824208 °	
				-121.722793 °	-121.722793 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:28923 DS_ID:20047 EP_NO: 10048 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: An abandoned pipe. Highly deteriorated pipe on river bank.Needs proper abandonment.Not found- Siphon breaker at landward levee toe. FIELD_STRUCT_DESC: *ABANDONED* 10-inch diameter irrigation pipe through levee, 4.5 feet below crown. A 1-inch conduit through levee, 4.5 feet below crown. A pump in metal shed on bank. Gate valve on waterside end. Service pole and 24-inch Concrete standpipe at landside toe. Installed by USCE, 1958 (ABO. No. 10048-King) O&M Manual Sac 128, March 1960. FS Date: 1/9/2014						

Photo 2 of 2 : UCIP_FA_2016_28923_53201.jpg



WS view: deteriorated and abandoned steel pipe on river bank.

LM Start	7.20	Rating **	A/W	Issue No.	1343
LM End	7.20	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.824900 °	38.824900 °
				-121.722851 °	-121.722851 °
DWR ID	DWR_RD1500_01_s_2014_1343				
Comment Code					
V7 : Trees / Woody Vegetation					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1500_189_1343_20160913_00088.jpg

Monitor tree that may pose a future threat to the integrity of the levee.
Spring 2014

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	7.49	Rating **	M	Issue No.	16
LM End	7.49	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.828944 °	38.828944 °
				-121.724329 °	-121.724329 °
DWR ID	DWR_RD1500_01_s_2012_16				
Comment Code					
EQ : Equipment					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1500_189_16_20160913_00015.jpg



View of the equipment along the levee toe on the landward side of the levee looking upstream. Spring 2016.

LM Start	7.72	Rating **	M	Issue No.	2598
LM End	7.72	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.831638 °	38.831638 °
				-121.726580 °	-121.726580 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50199 DS_ID:20049 EP_NO: 8147 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/29/2016: New pumps installed at LS toe ditch, could not find permit for this work. No signs of leakage or excessive vegetation growth in alignment with the pipe. Riser silted in; recommend installing a lid. Crossing has been downgraded from Urgent to Non-Urgent. (K. Fazel - UCIP)01/10/2014:Not found- slide gate in 48-inch corrugated metal riser at waterside toe.Repair works under way. Contact LMA for repair works information.Sign of leaky pipe and siphon breaker. This needs detailed investigation. (P. Amatya - DWR) FIELD_STRUCT_DESC: 12-inch steel irrigation pipe through the levee, 4.8 feet below the crown. Slant pump mounted on steel structure at the edge of the berm. A 4 by 4-foot concrete distribution box at the landside (LS) toe with newly installed pumps with shut-off valves. (Permit No. 8147, 1972 - Driver). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128 (HLM 7.79)]. FS Date: 8/29/2016					

Photo 1 of 2 : UCIP_FA_2016_50199_53204.jpg



WS view: slant pump on steel platform on end of berm.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	7.72	Rating **	M	Issue No.	2598 (cont)
LM End	7.72	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.831638 °	38.831638 °
				-121.726580 °	-121.726580 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50199 DS_ID:20049 EP_NO: 8147 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/29/2016: New pumps installed at LS toe ditch, could not find permit for this work. No signs of leakage or excessive vegetation growth in alignment with the pipe. Riser silted in; recommend installing a lid. Crossing has been downgraded from Urgent to Non-Urgent. (K. Fazel - UCIP)01/10/2014:Not found- slide gate in 48-inch corrugated metal riser at waterside toe.Repair works under way. Contact LMA for repair works information.Sign of leaky pipe and siphon breaker. This needs detailed investigation. (P. Amatya - DWR) FIELD_STRUCT_DESC: 12-inch steel irrigation pipe through the levee, 4.8 feet below the crown. Slant pump mounted on steel structure at the edge of the berm. A 4 by 4-foot concrete distribution box at the landside (LS) toe with newly installed pumps with shut-off valves. (Permit No. 8147, 1972 - Driver). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128 (HLM 7.79)]. FS Date: 8/29/2016					

Photo 2 of 2 : UCIP_FA_2016_50199_53203.jpg



WS view: sign of leakage- excessive vegetation on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	7.96	Rating **	M	Issue No.	2554
LM End	7.96	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.834260 °	38.834260 °
				-121.729566 °	-121.729566 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:28323 DS_ID:20051 EP_NO: 13882 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Power pole on landside. 2-inch conduit through the levee. Service box on waterside. Concrete pad on waterside. Not found- Concrete distribution box on landward side; not found- gate valve on waterside. Need proper abandonment. Pipe visible on river bank, waterside levee slope and landside field. FIELD_STRUCT_DESC: Abandoned 6-inch diameter steel irrigation pipe and electric conduit through levee, 4.9 feet below crown. 1-1/2 conduit through levee, 4.0 feet below crown. Service pole at landward levee toe. (ABO. No. 10062-Moroni, App. No. 13882) FS Date: 1/10/2014					

LM Start	7.96	Rating **	M	Issue No.	2554 (cont)
LM End	7.96	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_28323_52125.jpg



WS view: CMP with air vent (right), concrete pad (left), and switch panel (left) on levee slope.

Photo 2 of 2 : UCIP_FA_2016_28323_52124.jpg



WS view: abandoned steel pipe exposed on river bank.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	8.29	Rating **	M	Issue No.	150
LM End	8.29	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.838802 °	38.838802 °
				-121.729598 °	-121.729598 °
DWR ID	DWR_RD1500_01_s_2016_150				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Erosion caused by vehicles and runoffs from rain.					

Photo 1 of 2 : FA_2016_RD1500_189_150_20160926_00266.jpg



Updated view of the erosion site on waterward side of the levee. Fall 2016.

LM Start	8.29	Rating **	M	Issue No.	150 (cont)
LM End	8.29	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2016_RD1500_189_150_20160913_00071.jpg



View of the erosion on the waterward side of the levee looking upstream. Spring 2016.

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	8.33	Rating **	M	Issue No.	3
LM End	8.47	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.839546 °	38.840347 °
				-121.729591 °	-121.726857 °
DWR ID	DWR_RD1500_01_s_2016_3				
Comment Code					
Inspector Comment					
1997 - Damage to cobble revetment on top left bank and toe damage. 2004 - Site is pretty minor. 2010 - Cobbles continue to deteriorate. 2011 - Minor new erosion at the toe. 2013 - Might be able to shorten due to deposition. 2015: Site shortened, downstream end has plenty of berm and deposited material, well vegetated. [2015 Site ID: SAC_92-8_L]					

Photo 1 of 1 : FA_2016_RD1500_189_3_20160913_00003.jpg



USACE 2013 Photo #1

LM Start	8.35	Rating **	M	Issue No.	2555
LM End	8.35	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.839446 °	38.839446 °
				-121.728901 °	-121.728901 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:28324 DS_ID:20053 EP_NO: 10064 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Looks abandoned as service pole not found.May need proper abandonment. FIELD_STRUCT_DESC: 2 foot by 2 foot concrete box culvert through levee, 13.0 feet below crown. Pump on 6 foot diameter concrete pump well on berm. Slide gate in 42-inch CM riser on waterward slope. 4.5 foot by 6 foot concrete distribution box at landward toe. (ABO No. 10064 - Nix) FS Date: 1/10/2014					

Photo 1 of 2 : UCIP_FA_2016_28324_52131.jpg



WS view: slide gate in CMP riser on levee slope. Looks abandoned.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	8.35	Rating **	M	Issue No.	2555 (cont)	
LM End	8.35	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.839446 °	38.839446 °	
				-121.728901 °	-121.728901 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:28324 DS_ID:20053 EP_NO: 10064 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Looks abandoned as service pole not found.May need proper abandonment. FIELD_STRUCT_DESC: 2 foot by 2 foot concrete box culvert through levee, 13.0 feet below crown. Pump on 6 foot diameter concrete pump well on berm. Slide gate in 42-inch CM riser on waterward slope. 4.5 foot by 6 foot concrete distribution box at landward toe. (ABO No. 10064 - Nix) FS Date: 1/10/2014						

Photo 2 of 2 : UCIP_FA_2016_28324_52130.jpg



WS view: vertical pump on concrete sump on levee berm. Looks abandoned.

LM Start	8.67	Rating **	M	Issue No.	2556	
LM End	8.67	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.842218 °		38.842218 °
				-121.725728 °		-121.725728 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:28343						
DS_ID:20054						
EP_NO: 5518						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Not found- siphon breaker on landward shoulder.						
Pump removed.						
FIELD_STRUCT_DESC: 10-inch diameter steel irrigation pipe through levee, 2.5 feet below crown. Pump on concrete platform. 1-inch conduit installed in joint trench. Service pole at landward levee toe. Discharges into 4x4 foot concrete distribution box on landward side. Installed in 1966 under application No. 5518 by I.E. Bundock-M.Bundock, River Mile 92.9.						
FS Date: 1/10/2014						

Photo 1 of 2 : UCIP_FA_2016_28343_52145.jpg



WS view: U type concrete headwall, pipe, and pump on river bank.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	8.67	Rating **	M	Issue No.	2556 (cont)	
LM End	8.67	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.842218 °		38.842218 °
				-121.725728 °		-121.725728 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:28343 DS_ID:20054 EP_NO: 5518 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Not found- siphon breaker on landward shoulder. Pump removed. FIELD_STRUCT_DESC: 10-inch diameter steel irrigation pipe through levee, 2.5 feet below crown. Pump on concrete platform. 1-inch conduit installed in joint trench. Service pole at landward levee toe. Discharges into 4x4 foot concrete distribution box on landward side. Installed in 1966 under application No. 5518 by I.E. Bundock-M.Bundock, River Mile 92.9. FS Date: 1/10/2014						

Photo 2 of 2 : UCIP_FA_2016_28343_52144.jpg



WS view: pipe, pump (removed and capped with plywood), and gate valve on river bank.

LM Start	8.72	Rating **	M	Issue No.	18
LM End	8.72	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.842673 °	38.842673 °
				-121.726442 °	-121.726442 °
DWR ID	DWR_RD1500_01_s_2012_18				
Comment Code					
BU : Building					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1500_189_18_20160913_00016.jpg



The corner of the building has encroached into the toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	8.79	Rating **	M	Issue No.	109
LM End	8.79	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.843481 °	38.843481 °
				-121.727256 °	-121.727256 °
DWR ID	DWR_RD1500_01_f_2015_109				
Comment Code					
DE : Debris					
Inspector Comment					
Abandoned pipe is embedded into levee slope.					

Photo 1 of 1 : FA_2016_RD1500_189_109_20160913_00056.jpg



View of the abandoned pipe on the landward side of the levee looking upstream. Fall 2015.

LM Start	8.92	Rating **	A/W	Issue No.	1344
LM End	8.92	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.845076 °	38.845076 °
				-121.728301 °	-121.728301 °
DWR ID	DWR_RD1500_01_s_2014_1344				
Comment Code					
V7 : Trees / Woody Vegetation					
Inspector Comment					

Photo 1 of 3 : FA_2016_RD1500_189_1344_20160913_00089.jpg



The walnut tree at the toe has fallen. The roots are exposed and the branches are holding it up. Spring 2014

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	8.92	Rating **	A/W	Issue No.	1344 (cont)	
LM End	8.92	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			38.845076 °		38.845076 °
				-121.728301 °		-121.728301 °
DWR ID	DWR_RD1500_01_s_2014_1344					
Comment Code						
V7 : Trees / Woody Vegetation						
Inspector Comment						

LM Start	8.92	Rating **	A/W	Issue No.	1344 (cont)
LM End	8.92	Issue Type +	Ma	Location *	LS

Photo 2 of 3 : FA_2016_RD1500_189_1344_20160913_00090.jpg



The walnut tree has been trimmed but still remains at the landward toe of the levee. Fall 2015.

Photo 3 of 3 : FA_2016_RD1500_189_1344_20160913_00091.jpg



Perspective view of the walnut tree on the landward side of the levee looking downstream. Fall 2015.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	8.95	Rating **	M	Issue No.	2557
LM End	8.95	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.845578 °	38.845578 °
				-121.728406 °	-121.728406 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:28363
DS_ID:20055
EP_NO: 8503
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Looks abandoned. No pump found on WS. New well near landside. May need proper abandonment. Exposed pipe on waterside. Found steel plate closed pipe on landside.
FIELD_STRUCT_DESC: Abandoned 12-inch steel irrigation pipe through levee, 3.8 feet below crown. Pump on concrete pad with headwall. Siphon breaker in 24-inch CM riser on waterward slope. 1-1/4-inch conduit through levee, 3.0 feet below crown. Service pole with switch panel at landward toe. Concrete distribution box on landward toe. (App. No. 8503 - Munson) O&M Manual Sac 128, March 1960.
FS Date: 1/10/2014

LM Start	8.95	Rating **	M	Issue No.	2557 (cont)
LM End	8.95	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_28363_52167.jpg



WS view: siphon breaker in CMP riser on levee slope.

Photo 2 of 2 : UCIP_FA_2016_28363_52166.jpg



WS view: inlet steel pipe with gate valve on river bank.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	9.13	Rating **	M	Issue No.	2558
LM End	9.13	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.847841 °	38.847841 °
				-121.727172 °	-121.727172 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:28364 DS_ID:20056 EP_NO: 5598 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Not found- Wood headwall 18 ft from landward toe. Not found- Flap gate on landward side.No outlet structure found. Only a capped pipe found, but not sure whether it is connected to the crossing. FIELD_STRUCT_DESC: 12-inch steel irrigation pipe through levee, 4.8 feet below crown. Electrical conduit through levee, 4.8 feet below crown. Slant pump on steel structure. Siphon breaker in landward shoulder. Service pole on landside toe. Discharges into field. Installed 1967. (App. No. 5598 & 8505 - James) FS Date: 1/10/2014					

LM Start	9.13	Rating **	M	Issue No.	2558 (cont)
LM End	9.13	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_28364_52174.jpg



WS view: slant pump on steel platform on levee berm. Excessive oil leak from the pump.

Photo 2 of 2 : UCIP_FA_2016_28364_52175.jpg



LS view: air vent in steel pipe riser on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	9.40	Rating **	A/W	Issue No.	74
LM End	9.57	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.850267 °	38.852564 °
				-121.723275 °	-121.723179 °
DWR ID	DWR_RD1500_01_s_2012_74				
Comment Code					
V8 : Environmental Requirements.					
Inspector Comment					

Photo 1 of 2 : FA_2016_RD1500_189_74_20160913_00046.jpg



View of the revegetation site along the edge of the berm on the waterward side of the levee looking downstream. Spring 2016.

LM Start	9.40	Rating **	A/W	Issue No.	74 (cont)
LM End	9.57	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2016_RD1500_189_74_20160913_00047.jpg



Sign for the revegetation site by USACE.

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Levee Inspection Report By Mile - Fall 2016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	9.66	Rating **	M	Issue No.	2570 (cont)
LM End	9.66	Issue Type +	En	Location *	WS

A large, empty, corrugated metal drum lying on its side, filled with discarded plastic waste, including crumpled white and black plastic bags, a red bag, and other debris.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable A/W : Acceptable but Monitor & Maintain	En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	10.12	Rating **	M	Issue No.	2591
LM End	10.12	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.857853 °	38.857853 °
				-121.728222 °	-121.728222 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50069
DS_ID:20058
EP_NO: 10068
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 01/10/2014 Surface erosion along pipe alignment on landside. 30-inch concrete pipe in CMP riser on waterside. 30-inch x 24-inch concrete culvert on landside.
FIELD_STRUCT_DESC: 2-foot by 2.5-foot concrete box irrigation culvert diagonally through the levee, 13 feet below the crown. A pump on the river bank, power pole and switch panel on the waterside (WS) berm. Concrete surge box with slide gate on the WS berm. Concrete distribution box at the landside (LS) toe. (Automatic Board Order (ABO) issued as Permit 10068, 1960 - Reel). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960 (HLM 10.22)].
FS Date: 1/10/2014

LM Start	10.12	Rating **	M	Issue No.	2591 (cont)
LM End	10.12	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_50069_52188.jpg



WS view: pipe and pump with appurtenances on river bank. Pump removed and plugged with plywood.

Photo 2 of 2 : UCIP_FA_2016_50069_52189.jpg



LS view: surface erosion along pipe alignment on landside.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	10.60	Rating **	C	Issue No.	156
LM End	10.60	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.861186 °	38.861186 °
				-121.735207 °	-121.735207 °
DWR ID	DWR_RD1500_01_s_2016_156				
Comment Code					
BU : Building					
Inspector Comment					

No Photos

LM Start	10.70	Rating **	M	Issue No.	2569
LM End	10.70	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.861550 °	38.861550 °
				-121.737006 °	-121.737006 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:28925 DS_ID:20059 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pump removed.Obstructed siphon breaker in CMP riser on landside. FIELD_STRUCT_DESC: A 12-inch diameter steel irrigation pipe through levee, 4.3 feet below crown. A 1-1/2 conduit through levee. 2.0 feet below crown. Pump on river bank, siphon breaker on landside shoulder. A 8x6 ft. concrete distribution box and service pole at landside toe. O&M Manual Sac 128, March 1960. FS Date: 1/10/2014					

Photo 1 of 2 : UCIP_FA_2016_28925_53210.jpg



WS view: pipe, pump (removed and plugged with plywood), headwall, and appurtenances on river bank.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	10.70	Rating **	M	Issue No.	2569 (cont)	
LM End	10.70	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.861550 °	38.861550 °	
				-121.737006 °	-121.737006 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:28925 DS_ID:20059 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pump removed.Obstructed siphon breaker in CMP riser on landside. FIELD_STRUCT_DESC: A 12-inch diameter steel irrigation pipe through levee, 4.3 feet below crown. A 1-1/2 conduit through levee. 2.0 feet below crown. Pump on river bank, siphon breaker on landside shoulder. A 8x6 ft. concrete distribution box and service pole at landside toe. O&M Manual Sac 128, March 1960. FS Date: 1/10/2014						

Photo 2 of 2 : UCIP_FA_2016_28925_53209.jpg



LS view: siphon breaker in CMP riser (bottom) on levee slope and concrete distribution box (top) on levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	11.24	Rating **	U	Issue No.	2592
LM End	11.24	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.865649 °	38.865649 °
				-121.745279 °	-121.745279 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50043
DS_ID:20060
EP_NO: 10068
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 08/29/2016 Pot hole in alignment with pipe is still present on levee crown. Sloughing of LS slope is in alignment with pipe. Permit underway for installation of new pipe so urgent category will soon be corrected. Siemens service pole may be unauthorized. Otherwise same as last inspection.01/10/2014 Pump removed.10-inch pipe joined to 14-inch pipe.Wet, some vegetations, and subsidence along pipe alignment on landside. This needs detailed investigation.
FIELD_STRUCT_DESC: 14-inch steel irrigation pipe through the levee, 4.7 feet below the crown. Pump and gate valve on concrete platform on the waterside (WS) bank. Switch control house and new Siemens service pole with meter on the waterside (WS) shoulder. Siphon breaker on the landside (LS) slope. Concrete distribution box on the LS. (Automatic Board Order (ABO) issued as Permit No. 10068, 1974 - Reel). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960 (HLM 11.35)].
FS Date: 8/29/2016

LM Start	11.24	Rating **	U	Issue No.	2592 (cont)
LM End	11.24	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_50043_52213.jpg



WS view: pipe, pump (removed and plugged with plywood plate), and appurtenances on river bank.

Photo 2 of 2 : UCIP_FA_2016_50043_52212.jpg



LS view: wet, some vegetations, and subsidence along pipe alignment on landside.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	11.30	Rating **	M	Issue No.	20
LM End	11.30	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.866383 °	38.866383 °
				-121.745911 °	-121.745911 °
DWR ID	DWR_RD1500_01_s_2012_20				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1500_189_20_20160913_00017.jpg



View of the landscaping on the landward side of the levee looking upstream. Fall 2015.

LM Start	11.45	Rating **	M	Issue No.	2597
LM End	11.45	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.868544 °	38.868544 °
				-121.746471 °	-121.746471 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50198 DS_ID:20061 EP_NO: 10041 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/29/2016 Depressions cited previously are a make-shift staircase and not an indication of a problem with pipe. Pipe partiallay exposed on LS slope which should be backfilled. Crossing has been downgraded from Urgent to Non-Urgent. (K. Fazel - UCIP)01/10/2014 Depressions on both sides of the levee slope. It needs more investigation.Pump removed. (P. Amatya - DWR) FIELD_STRUCT_DESC: 8-inch steel irrigation pipe through the levee, 4 feet below the crown. Pump and gate valve on concrete pump platform on bank. Corrugated metal switch house on waterside (WS). Service pole on WS shoulder. 8-foot by 6-foot (inside dimensions) concrete distribution box on the landside (LS). Pole at the LS toe. (Automatic Board Order (ABO) issued as Permit No. 10041, 1974 - Duffy) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960 (HLM 11.57)]. FS Date: 8/29/2016					

Photo 1 of 2 : UCIP_FA_2016_50198_52220.jpg



WS view: pipe, pump (removed), headwall, and appurtenances on river bank.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	11.45	Rating **	M	Issue No.	2597 (cont)
LM End	11.45	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.868544 °	38.868544 °
				-121.746471 °	-121.746471 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50198 DS_ID:20061 EP_NO: 10041 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/29/2016 Depressions cited previously are a make-shift staircase and not an indication of a problem with pipe. Pipe partiallay exposed on LS slope which should be backfilled. Crossing has been downgraded from Urgent to Non-Urgent. (K. Fazel - UCIP)01/10/2014 Depressions on both sides of the levee slope. It needs more investigation.Pump removed. (P. Amatya - DWR) FIELD_STRUCT_DESC: 8-inch steel irrigation pipe through the levee, 4 feet below the crown. Pump and gate valve on concrete pump platform on bank. Corrugated metal switch house on waterside (WS). Service pole on WS shoulder. 8-foot by 6-foot (inside dimensions) concrete distribution box on the landside (LS). Pole at the LS toe. (Automatic Board Order (ABO) issued as Permit No. 10041, 1974 - Duffy) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960 (HLM 11.57)]. FS Date: 8/29/2016					

Photo 2 of 2 : UCIP_FA_2016_50198_52219.jpg



LS view: depressions along the pipe alignment on levee slope. It needs detailed investigation.

LM Start	11.45	Rating **	M	Issue No.	114
LM End	11.45	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.868577 °	38.868577 °
				-121.746487 °	-121.746487 °
DWR ID	DWR_RD1500_01_f_2015_114				
Comment Code					
ST : Stairway					
Inspector Comment					
There is erosion at the toe of the levee where the concrete box is located.					

Photo 1 of 3 : FA_2016_RD1500_189_114_20160913_00058.jpg



Perspective view of the concrete box on the landward side of the levee looking upstream. Fall 2015.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	11.45	Rating **	M	Issue No.	114 (cont)	
LM End	11.45	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			38.868577 °		38.868577 °
				-121.746487 °		-121.746487 °
DWR ID	DWR_RD1500_01_f_2015_114					
Comment Code						
ST : Stairway						
Inspector Comment						
There is erosion at the toe of the levee where the concrete box is located.						

LM Start	11.45	Rating **	M	Issue No.	114 (cont)
LM End	11.45	Issue Type +	En	Location *	LS

Photo 2 of 3 : FA_2016_RD1500_189_114_20160913_00059.jpg



There is erosion at the levee toe around the concrete box. There are also stairs leading down the slope. Fall 2015.

Photo 3 of 3 : FA_2016_RD1500_189_114_20160913_00060.jpg



There is slight erosion on the waterward side of the levee where the pipe seems to run through the levee. Fall 2015.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	11.80	Rating **	A/W	Issue No.	19
LM End	11.98	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.871853 °	38.870581 °
				-121.749330 °	-121.752059 °
DWR ID	DWR_RD1500_01_s_2016_19				
Comment Code					
Inspector Comment					
1997 - No toe on the large upstream rubble (mix of broken concrete, bricks, rock, and steal) - should be replaced. Oversized bank. 2001 - New slump at the downstream end. 2003 - Some minor bank retreat at the downstream end. 2004 - Some new retreat at the downstream end. 2006 - Some new erosion, mainly on the steep slope and scarps. (Pumping station is not part of the erosion site.) 2010 - Minor new erosion. 2011 - Minor new erosion at the toe. 2015: Fresh slumping. [2015 Site ID: SAC_95-8_L]					

No Photos

LM Start	11.99	Rating **	A/W	Issue No.	1
LM End	12.26	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.870474 °	38.869139 °
				-121.752237 °	-121.757108 °
DWR ID	DWR_RD1500_01_s_2016_1				
Comment Code					
Inspector Comment					
2000 - Vertical Modesto Formation bank with mass failure. 2003 - Upstream end has some new bank retreat. 2004 - Upstream end is worse. 2006 - Some new erosion, mainly on the steep slope and scarps. (Pumping station is not part of the erosion site.) 2010 - Some new erosion and deposition at upstream end, definite encroachments. 2011 - Minor new erosion at the toe. 2015: Site removed, sufficient berm width. [2015 Site ID: SAC_96-2_L]					

Photo 1 of 1 : FA_2016_RD1500_189_1_20160913_00001.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	11.99	Rating **	M	Issue No.	116
LM End	11.99	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.870840 °	38.870840 °
				-121.752594 °	-121.752594 °
DWR ID	DWR_RD1500_01_f_2015_116				
Comment Code					
GA : Garbage					
Inspector Comment					

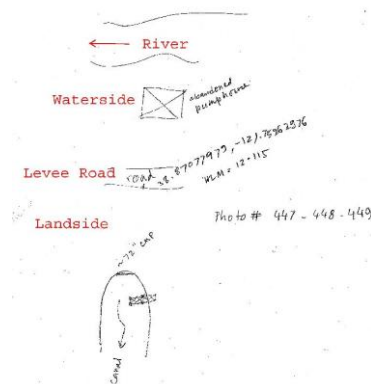
Photo 1 of 1 : FA_2016_RD1500_189_116_20160913_00061.jpg



View of the debris on the waterward side of the levee. Fall 2015.

LM Start	12.00	Rating **	M	Issue No.	2590
LM End	12.00	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.870780 °	38.870780 °
				-121.752630 °	-121.752630 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:41744					
DS_ID:20008					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Indicator Found					
UCIP Comments: An abandoned pump house on waterside and a 72-inch corrugated metal pipe on landside. The pipe discharges into irrigation ditch (canal). Water was flowing during the field visit. Needs to verify from LMA whether this pipe is through the levee or not.					
FIELD_STRUCT_DESC: 1 of 2: Two 4 foot and 3.5 foot concrete culverts through levee, 17 feet below the crown, pump on WS.					
FS Date: 1/10/2014					

Photo 1 of 2 : UCIP_FA_2016_41744_51343.jpg



Sketch of Utility Crossing @HLM 12.115

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	12.00	Rating **	M	Issue No.	2590 (cont)	
LM End	12.00	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.870780 °	38.870780 °	
				-121.752630 °	-121.752630 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:41744						
DS_ID:20008						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Indicator Found						
UCIP Comments: An abandoned pump house on waterside and a 72-inch corrugated metal pipe on landside. The pipe discharges into irrigation ditch (canal). Water was flowing during the field visit. Needs to verify from LMA whether this pipe is through the levee or not.						
FIELD_STRUCT_DESC: 1 of 2: Two 4 foot and 3.5 foot concrete culverts through levee, 17 feet below the crown, pump on WS.						
FS Date: 1/10/2014						

Photo 2 of 2 : UCIP_FA_2016_41744_51345.jpg



WS view: abandoned concrete pump house. No pump and pipe found.

LM Start	12.42	Rating **	M	Issue No.	24
LM End	12.53	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.868834 °	38.867492 °
				-121.760014 °	-121.760903 °
DWR ID	DWR_RD1500_01_s_2012_24				
Comment Code					
EQ : Equipment					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1500_189_24_20160913_00020.jpg



View of the equipment on the landward side of the levee looking upstream. Fall 2015.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	12.55	Rating **	M	Issue No.	2596
LM End	12.55	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.867254 °	38.867254 °
				-121.761212 °	-121.761212 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50197
DS_ID:20063
EP_NO: 10061
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/29/2016 Same as last inspection. (K. Fazel - UCIP)01/10/2014 Needs proper abandonment. (P. Amatya - DWR)
FIELD_STRUCT_DESC: *ABANDONED* 18-inch corrugated metal drainage pipe through the levee, 15 feet below the crown. Slide gate in 4-foot by 4-foot concrete box at the waterside (WS) toe. Concrete box at the landside (LS) toe. Pipe crosses overflow area to the river.
(Automatic Board Order (ABO) issued as Permit No. 10061, 1974 - Matteoli). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960 (HLM 12.69)].
FS Date: 8/29/2016

LM Start	12.55	Rating **	M	Issue No.	2596 (cont)
LM End	12.55	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_50197_52425.jpg



WS view: slide gate (left) in concrete box at levee toe. Slide gate and the box mostly burried.

Photo 2 of 2 : UCIP_FA_2016_50197_52424.jpg



LS view: concrete intake box on levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Reclamation District No. 1500 Sutter Basin

View of the equipment on the crown of the levee looking upstream. Fall 2015.

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Levee Inspection Report By Mile - Fall 2016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

Photo 1 of 1 : FA_2016_RD1500_189_26_20160913_00022.jpg



The building's backside was built into the toe of the levee.

Photo 1 of 1 : FA_2016_RD1500_189_992_20160913_00086.jpg



Next to the building there are tires and axles stored at the toe.

Photo 1 of 1 : FA_2016_RD1500_189_119_20160913_00063.jpg



View of the equipment on the crown of the levee looking upstream. Fall 2015

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	13.96	Rating **	M	Issue No.	28
LM End	13.96	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.857625 °	38.857625 °
				-121.782832 °	-121.782832 °
DWR ID	DWR_RD1500_01_s_2012_28				
Comment Code					
EQ : Equipment					
Inspector Comment					
Equipment are on the crown of the levee but does not obstruct access.					

Photo 1 of 1 : FA_2016_RD1500_189_28_20160913_00023.jpg



View of the equipment on the crown side of the levee looking upstream.
Fall 2015.

LM Start	13.98	Rating **	M	Issue No.	10
LM End	14.26	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.857239 °	38.861899 °
				-121.783771 °	-121.784057 °
DWR ID	DWR_RD1500_01_s_2016_10				
Comment Code					
Inspector Comment					
1997 - Intermittent toe failure of the hand placed riprap; failure of toe materials. 2015: No observed changes. [2015 Site ID: SAC_99-0_L]					

Photo 1 of 1 : FA_2016_RD1500_189_10_20160913_00011.jpg



USACE 2013 Photo #1

LM Start	14.17	Rating **	M	Issue No.	122
LM End	14.17	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.860368 °	38.860368 °
				-121.783268 °	-121.783268 °
DWR ID	DWR_RD1500_01_f_2016_122				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1500_189_122_20160926_00265.jpg



Vegetation on LS of the levee. Fall 2016.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Reclamation District No. 1500 Sutter Basin

View of a building encroaching levee on landside toe. Fall 2016.

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	14.24	Rating **	M	Issue No.	31
LM End	14.24	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.861335 °	38.861335 °
				-121.783605 °	-121.783605 °
DWR ID	DWR_RD1500_01_s_2012_31				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1500_189_31_20160913_00025.jpg



View of the landscaping on the landward side of the levee looking upstream. Spring 2016.

LM Start	14.24	Rating **	M	Issue No.	115
LM End	14.24	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.861353 °	38.861353 °
				-121.783610 °	-121.783610 °
DWR ID	DWR_RD1500_01_s_2016_115				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Ground squirrel ran across the top of the levee to the landward side of the levee into the landscaping.					

Photo 1 of 1 : FA_2016_RD1500_189_115_20160926_00263.jpg



View of rodent burrows on LS slope of the levee. Fall 2016.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	14.27	Rating **	U	Issue No.	77
LM End	14.27	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.861793 °	38.861793 °
				-121.783703 °	-121.783703 °
DWR ID	DWR_RD1500_01_s_2012_77				
Comment Code					
T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

Photo 1 of 2 : FA_2016_RD1500_189_77_20160913_00048.jpg



View of the trees on the landward side of the levee looking upstream. Spring 2016.

LM Start	14.27	Rating **	U	Issue No.	77 (cont)
LM End	14.27	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2016_RD1500_189_77_20160913_00049.jpg



Trees block visibility on the landward slope . Spring 2016.

LM Start	14.71	Rating **	M	Issue No.	969
LM End	15.76	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.865395 °	38.871827 °
				-121.789402 °	-121.804158 °
DWR ID	DWR_RD1500_01_s_2012_969				
Comment Code					
DT : Ditch					
Inspector Comment					
Ditch is at the levee toe.					

Photo 1 of 1 : FA_2016_RD1500_189_969_20160913_00083.jpg



View of the ditch on the landward side of the levee looking upstream. Fall 2015.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	15.11	Rating **	M	Issue No.	2571
LM End	15.11	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.866841 °	38.866841 °
				-121.794047 °	-121.794047 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:28486
DS_ID:20010
EP_NO: 10037
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Water treatment plant on landside. Working during field visit. Not found- Flap Gate in 6.5 foot by 7.0 foot O.D. concrete distribution box at landward toe.
FIELD_STRUCT_DESC: 22-inch concrete encased steel irrigation pipe through levee, 17.5 feet below crown. 1.5 -inch conduit through levee, 6.0 feet below crown. Slant pump on river bank. Gate valve in CMP riser on waterside. A 6.5 foot by 7.0 foot O.D. concrete distribution box at landward toe. (ABO. No. 10037 - Clauss) O&M Manual Sac 128, March 1960.
FS Date: 1/10/2014

LM Start	15.11	Rating **	M	Issue No.	2571 (cont)
LM End	15.11	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_28486_52461.jpg



WS view: CMP riser with gate valve and slant pump on steel platform.

Photo 2 of 2 : UCIP_FA_2016_28486_52460.jpg



WS view: oil leaking slant pump on steel platform.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	15.12	Rating **	M	Issue No.	21
LM End	15.12	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.866878 °	38.866878 °
				-121.794110 °	-121.794110 °
DWR ID	DWR_RD1500_01_s_2012_21				
Comment Code					
DE : Debris					
Inspector Comment					
A pile of rip rap and concrete needs to be removed.					

Photo 1 of 2 : FA_2016_RD1500_189_21_20160926_00262.jpg



Updated view of debris site on WS slope. Fall 2016.

LM Start	15.12	Rating **	M	Issue No.	21 (cont)
LM End	15.12	Issue Type +	En	Location *	WS

Photo 2 of 2 : FA_2016_RD1500_189_21_20160913_00018.jpg



View of the concrete debris on the waterward side of the levee. Fall 2015.

LM Start	15.27	Rating **	C	Issue No.	110
LM End	15.27	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.868244 °	38.868244 °
				-121.796220 °	-121.796220 °
DWR ID	DWR_RD1500_01_f_2014_110				
Comment Code					
DE : Debris					
Inspector Comment					

No Photos

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	15.34	Rating **	C	Issue No.	159
LM End	17.29	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.868748 °	38.887612 °
				-121.797371 °	-121.807911 °
DWR ID	DWR_RD1500_01_s_2016_159				
Comment Code					
C3 : Add appropriate gravel or road base. Grade and compact.					
Inspector Comment					

No Photos

LM Start	15.43	Rating **	M	Issue No.	120
LM End	15.43	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.869466 °	38.869466 °
				-121.798952 °	-121.798952 °
DWR ID	DWR_RD1500_01_f_2016_120				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1500_189_120_20160926_00261.jpg



View of rodent burrow on waterward side of the levee. Fall 2016.

LM Start	15.76	Rating **	M	Issue No.	32
LM End	15.76	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.871828 °	38.871828 °
				-121.804158 °	-121.804158 °
DWR ID	DWR_RD1500_01_s_2012_32				
Comment Code					
EQ : Equipment					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1500_189_32_20160913_00026.jpg



View of the equipment on the waterward side of the levee looking upstream. Fall 2015.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	16.30	Rating **	M	Issue No.	33
LM End	16.30	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.875785 °	38.875785 °
				-121.812330 °	-121.812330 °
DWR ID	DWR_RD1500_01_s_2012_33				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1500_189_33_20160913_00027.jpg



View of the shrubs on the landward side of the levee looking upstream. Spring 2016.

LM Start	16.97	Rating **	M	Issue No.	2572
LM End	16.97	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.885098 °	38.885098 °
				-121.812884 °	-121.812884 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:28489					
DS_ID:20081					
EP_NO: 8510					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Pipe not visible on river bank.Cleaning and clearing require around slide gates. May be abandoned.					
FIELD_STRUCT_DESC: 24-inch CM irrigation pipe through levee, 15.0 feet below crown. Slide gate in 36-inch CM riser on waterward slope. Slide gate on concrete "U" headwall an irrigation ditch at landward toe. (App No. 8510, 11/1972 - Clauss) O&M Manual Sac 128, March 1960.					
FS Date: 1/14/2014					

Photo 1 of 2 : UCIP_FA_2016_28489_52479.jpg



WS view: CMP riser with slide gate on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	16.97	Rating **	M	Issue No.	2572 (cont)
LM End	16.97	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.885098 °	38.885098 °
				-121.812884 °	-121.812884 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:28489					
DS_ID:20081					
EP_NO: 8510					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Pipe not visible on river bank.Cleaning and clearing require around slide gates. May be abandoned.					
FIELD_STRUCT_DESC: 24-inch CM irrigation pipe through levee, 15.0 feet below crown. Slide gate in 36-inch CM riser on waterward slope.					
Slide gate on concrete "U" headwall an irrigation ditch at landward toe.					
(App No. 8510, 11/1972 - Clauss) O&M Manual Sac 128, March 1960.					
FS Date: 1/14/2014					

Photo 2 of 2 : UCIP_FA_2016_28489_52478.jpg



WS view: cleaning and clearing require around slide gate in CMP riser.

LM Start	17.27	Rating **	M	Issue No.	117
LM End	17.27	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.887377 °	38.887377 °
				-121.808236 °	-121.808236 °
DWR ID	DWR_RD1500_01_f_2016_117				
Comment Code					
ST : Stairway					
Inspector Comment					
Stairway was made by digging levee slope					

Photo 1 of 1 : FA_2016_RD1500_189_117_20160926_00260.jpg



View of stairs dug on landside levee slope. Fall 2016.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	17.27	Rating **	M	Issue No.	2573
LM End	17.27	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.887377 °	38.887377 °
				-121.808219 °	-121.808219 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:28490 DS_ID:20066 EP_NO: 1739 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Most of the pipe exposed on levee slope.Pipe leakage repaired recently.Siphon breaker requires protection. FIELD_STRUCT_DESC: 20-inch welded steel irrigation pipe through levee, 5.5 feet below crown. Slant pump mounted on steel structure on waterside. Siphon breaker on landward slope. Discharges into concrete distribution box at landward toe. (App. No. 1739 - Clauss) (RM 102.50) O&M Manual Sac 128, March 1960 FS Date: 1/14/2014					

LM Start	17.27	Rating **	M	Issue No.	2573 (cont)
LM End	17.27	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_28490_52485.jpg



WS view: slant pump on steel platform on levee berm.

Photo 2 of 2 : UCIP_FA_2016_28490_52484.jpg



LS view: siphon breaker (bottom) without protection, exposed pipe on levee slope, and distribution box on levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	17.28	Rating **	M	Issue No.	163
LM End	17.28	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.887507 °	38.887507 °
				-121.808055 °	-121.808055 °
DWR ID	DWR_RD1500_01_s_2016_163				
Comment Code					
DE : Debris					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1500_189_163_20160913_00075.jpg



View of the debris at the toe of the levee on the landward side looking upstream. Spring 2016.

LM Start	17.34	Rating **	M	Issue No.	121
LM End	17.34	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.888137 °	38.888137 °
				-121.807273 °	-121.807273 °
DWR ID	DWR_RD1500_01_f_2015_121				
Comment Code					
PI : Pipe					
Inspector Comment					
Pipe is causing the erosion on the berm of the levee.					

Photo 1 of 3 : FA_2016_RD1500_189_121_20160913_00064.jpg



Perspective view of the pump on the waterward side of the levee looking upstream. Fall 2015.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	17.34	Rating **	M	Issue No.	121 (cont)	
LM End	17.34	Issue Type +	En	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			38.888137 °		38.888137 °
				-121.807273 °		-121.807273 °
DWR ID	DWR_RD1500_01_f_2015_121					
Comment Code						
PI : Pipe						
Inspector Comment						
Pipe is causing the erosion on the berm of the levee.						

Photo 2 of 3 : FA_2016_RD1500_189_121_20160913_00065.jpg



There is erosion underneath the pipe on the waterward berm area. Fall 2015.

LM Start	17.34	Rating **	M	Issue No.	121 (cont)
LM End	17.34	Issue Type +	En	Location *	WS

Photo 3 of 3 : FA_2016_RD1500_189_121_20160913_00066.jpg



The concrete for the base stand has been exposed due to erosion.

LM Start	18.29	Rating **	C	Issue No.	51
LM End	18.29	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.900873 °	38.900873 °
				-121.802680 °	-121.802680 °
DWR ID	DWR_RD1500_01_s_2012_51				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	18.38	Rating **	M	Issue No.	13
LM End	19.06	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.901337 °	38.902721 °
				-121.801175 °	-121.790677 °
DWR ID	DWR_RD1500_01_s_2016_13				
Comment Code					
Inspector Comment					
1997 - Pocket failures of cobble revetment toe; scallops of rock loss along the bank; irregular bankline developing. 2001 - Small scallops in the toe of the berm. 2005 - Still multiple erosion pockets in the toe. 2006 - Two new small slumps. 2011 - Old cobble continue to fail causing minor slumping. 2012 - Portions of site appears to be stabilizing. 2015: No observed changes. [2015 Site ID: SAC_104-0_L]					

Photo 1 of 1 : FA_2016_RD1500_189_13_20160913_00013.jpg



USACE 2013 Photo #1

LM Start	18.39	Rating **	M	Issue No.	113
LM End	18.39	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.901022 °	38.901022 °
				-121.801150 °	-121.801150 °
DWR ID	DWR_RD1500_01_f_2016_113				
Comment Code					
DE : Debris					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1500_189_113_20160926_00259.jpg



Debris on landside slope of the levee. Fall 2016.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	18.40	Rating **	M	Issue No.	2574
LM End	18.40	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.900885 °	38.900885 °
				-121.800999 °	-121.800999 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:28505 DS_ID:20068 EP_NO: 2425 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Concrete pad on both sides of the levee shoulders.Oil leaks from pump set. FIELD_STRUCT_DESC: 14-inch steel irrigation pipe through levee, 3.0 feet below crown. Slant pump in Corrugated metal pump house on steel structure on bank. Meter pole on slope. Siphon breaker on landward shoulder. Discharges into 36-inch concrete standpipe at landward toe. (App. No. 2425 - Hiatt). O&M Manual Sac 128, March 1960. FS Date: 1/14/2014					

LM Start	18.40	Rating **	M	Issue No.	2574 (cont)
LM End	18.40	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_28505_52517.jpg



WS view: slant pump in CM shed on levee berm. Oil leaks from the pump.

Photo 2 of 2 : UCIP_FA_2016_28505_52516.jpg



LS view: siphon breaker (bottom) on exposed steel pipe on levee slope and steel standpipe (top) on levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 1500 Sutter Basin

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	19.01	Rating **	M	Issue No.	37 (cont)	
LM End	19.01	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			38.901965 °		38.901965 °
				-121.790993 °		-121.790993 °
DWR ID	DWR_RD1500_01_s_2012_37					
Comment Code						
V6 : Landscaping						
Inspector Comment						
Concrete retaining wall along toe of landside levee. Permit #10065						

Photo 2 of 2 : FA_2016_RD1500_189_37_20160913_00031.jpg



View of the groundcover on the landward side of the levee looking upstream. Fall 2015.

LM Start	19.16	Rating **	A/W	Issue No.	5
LM End	19.47	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.904041 °	38.906697 °
				-121.790298 °	-121.792796 °
DWR ID	DWR_RD1500_01_s_2016_5				
Comment Code					
Inspector Comment					
1997 - Cobbles eroded off the clay materials; not much evidence of erosion on the toe; cobble loss on the toe. 2011 - Some minor new erosion. 2015: No observed changes. [2015 Site ID: SAC_104-5_L]					

Photo 1 of 1 : FA_2016_RD1500_189_5_20160913_00005.jpg



USACE 2013 Photo #1

LM Start	19.23	Rating **	C	Issue No.	165
LM End	19.23	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.905022 °	38.905022 °
				-121.790073 °	-121.790073 °
DWR ID	DWR_RD1500_01_s_2016_165				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	19.23	Rating **	M	Issue No.	2575
LM End	19.23	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.905029 °	38.905029 °
				-121.790076 °	-121.790076 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:28506 DS_ID:20087 EP_NO: 550 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Surface erosion on landside slope.Oil leaks from the pump. FIELD_STRUCT_DESC: 14-inch steel irrigation pipe through levee, 4.8 feet below crown. Slant pump and gate valve in CM pump house on steel structure on berm. Water meter installed on pipe on the waterward slope. Concrete distribution box on landward side. (App. No. 550 - Hiatt) O&M Manual Sac 128, March 1960. New permit no. 17648GM- Van Ruiten Bros- June 24, 2003. FS Date: 1/14/2014					

LM Start	19.23	Rating **	M	Issue No.	2575 (cont)
LM End	19.23	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_28506_52523.jpg



WS view: slant pump in CM shed on levee berm. Oil leaks from the pump.

Photo 2 of 2 : UCIP_FA_2016_28506_52522.jpg



LS view: surface erosion on landside levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	19.47	Rating **	M	Issue No.	2576
LM End	19.47	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.907033 °	38.907033 °
				-121.792943 °	-121.792943 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:28524 DS_ID:20004 EP_NO: 15681 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Obstructed siphon breakers on landside.Two 3-inch conduit through the levee.Service box on pump platform.Pumping plant was working during the field visit. FIELD_STRUCT_DESC: 1 of 2: Two slant pumps supported by steel piling on the riverbank. 16 and 18-inches steel pipelines, asphalt coated inside and out and wrapped with asphalt saturated felt through the levee section to a concrete discharge box located landward of the landward levee toe. Pipes 1.5 feet below the crown. Siphon breakers in steel pipe risers on levee slope. (App. No. 15681) FS Date: 1/14/2014					

LM Start	19.47	Rating **	M	Issue No.	2576 (cont)
LM End	19.47	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_28524_52551.jpg



WS view: pipe, walkway, slant pump, and steel platform on levee berm.

Photo 2 of 2 : UCIP_FA_2016_28524_52550.jpg



LS view: siphon breakers in steel pipe risers (bottom) on levee slope and concrete distribution (top) box on levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	19.47	Rating **	M	Issue No.	2577
LM End	19.47	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.907028 °	38.907028 °
				-121.792959 °	-121.792959 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:28927					
DS_ID:20022					
EP_NO: 15681					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Obstructed siphon breakers on landside.Two 3-inch conduit through the levee.Service box on pump platform.Pumping plant was working during the field visit.					
FIELD_STRUCT_DESC: 2 of 2: Two slant pumps supported by steel piling on the riverbank. 18 and 16-inches steel pipelines, asphalt coated inside and out and wrapped with asphalt saturated felt through the levee section to a concrete discharge box located landward of the landward levee toe. Pipes 1.5 feet below the crown. Siphon breakers in steel pipe risers on levee slope. (App. No. 15681)					
FS Date: 1/14/2014					

LM Start	19.47	Rating **	M	Issue No.	2577 (cont)
LM End	19.47	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_28927_53216.jpg



WS view: pipe, walkway, slant pump, and steel platform on levee berm.

Photo 2 of 2 : UCIP_FA_2016_28927_53215.jpg



LS view: siphon breakers in steel pipe risers (bottom) on levee slope and concrete distribution (top) box on levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 1500 Sutter Basin

View of the debris pile and pipe on the crown of the levee looking upstream. Spring 2016.

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	19.87	Rating **	M	Issue No.	96
LM End	19.87	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.906260 °	38.906260 °
				-121.800129 °	-121.800129 °
DWR ID	DWR_RD1500_01_f_2016_96				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	21.26	Rating **	M	Issue No.	2551
LM End	21.26	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.914659 °	38.914659 °
				-121.803609 °	-121.803609 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:28527 DS_ID:20070 EP_NO: 11959A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Siphon breaker (obstructed) in CMP on landside slope.Power pole on landside toe. FIELD_STRUCT_DESC: 10-inch steel pipe through levee, 3.0 feet below crown with slant pump on steel platform. Siphon breaker (obstructed) in CMP on landside slope. A 6 foot by 6 foot concrete distribution box on landward side. (App. No. 11959A - Van Ruiten) O&M Manual Sac 128, March 1960. FS Date: 1/14/2014					

Photo 1 of 2 : UCIP_FA_2016_28527_52568.jpg



WS view: slant pump on steel platform on levee berm.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	21.26	Rating **	M	Issue No.	2551 (cont)	
LM End	21.26	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.914659 °		38.914659 °
				-121.803609 °		-121.803609 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:28527 DS_ID:20070 EP_NO: 11959A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Siphon breaker (obstructed) in CMP on landside slope.Power pole on landside toe. FIELD_STRUCT_DESC: 10-inch steel pipe through levee, 3.0 feet below crown with slant pump on steel platform. Siphon breaker (obstructed) in CMP on landside slope. A 6 foot by 6 foot concrete distribution box on landward side. (App. No. 11959A - Van Ruiten) O&M Manual Sac 128, March 1960. FS Date: 1/14/2014						

Photo 2 of 2 : UCIP_FA_2016_28527_52567.jpg



LS view: siphon breaker in CMP riser on levee slope (bottom) and concrete distribution box (top) on levee toe.

LM Start	21.30	Rating **	M	Issue No.	140
LM End	21.58	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.914846 °	38.916180 °
				-121.803692 °	-121.808850 °
DWR ID	DWR_RD1500_01_f_2016_140				
Comment Code					
DT : Ditch					
Inspector Comment					
Old ditch at LS toe. Couldn't find records in levee log.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	21.57	Rating **	M	Issue No.	97
LM End	21.57	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.916196 °	38.916196 °
				-121.808595 °	-121.808595 °
DWR ID	DWR_RD1500_01_f_2016_97				
Comment Code					
DE : Debris					
Inspector Comment					

No Photos

LM Start	21.58	Rating **	U	Issue No.	98
LM End	21.58	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.916180 °	38.916180 °
				-121.808850 °	-121.808850 °
DWR ID	DWR_RD1500_01_f_2016_98				
Comment Code					
PI : Pipe					
Inspector Comment					
Pipe open on both ends. No permit. Rebar and pipe on slope.					

Photo 1 of 3 : FA_2016_RD1500_189_98_20160926_00237.jpg



View of pipe on landside slope. Open on both ends. Less than a foot below the crown. Intended for drain hose go through the levee. Drain hose located nearby. Fall 2016.

LM Start	21.58	Rating **	U	Issue No.	98 (cont)
LM End	21.58	Issue Type +	En	Location *	CR

Photo 2 of 3 : FA_2016_RD1500_189_98_20160926_00239.jpg



View of pipe on waterward side. Fall 2016.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Reclamation District No. 1500 Sutter Basin

View of stairs dug on landside slope. Fall 2016.

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	21.58	Rating **	M	Issue No.	2552
LM End	21.58	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.916180 °	38.916180 °
				-121.808904 °	-121.808904 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:28528					
DS_ID:20071					
EP_NO: 10063					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Water leaks near pump. Obstructed siphon breaker in CMP on landside.Plant was working during field visit.					
FIELD_STRUCT_DESC: 16-inch steel irrigation pipe through levee 6.3 feet below crown. 1-1/2-inch conduit through levee, 6.5 feet below crown. Slant pump and gate valve on berm. Siphon breaker in 24-inch corrugated metal riser on landward slope. CMP standpipe on landside toe. Power pole and one anchor at landward toe. (ABO. No. 10063, 11/1974 - Nelson) O&M Manual Sac 128, March 1960.					
FS Date: 1/14/2014					

LM Start	21.58	Rating **	M	Issue No.	2552 (cont)
LM End	21.58	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_28528_52576.jpg



WS view: slant pump on steel platform on levee berm. Exposed steel pipe with gate valve also on levee berm.

Photo 2 of 2 : UCIP_FA_2016_28528_52575.jpg



WS view: leaky inlet pipe near pump platform.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	21.91	Rating **	M	Issue No.	2593
LM End	21.91	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.916606 °	38.916606 °
				-121.814881 °	-121.814881 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50192
DS_ID:20083
EP_NO: 2895
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 09/20/2016 Inspection 09/20/2016-1100 for Permit No: 2895-1 performed by Oleg Yakimov and George Wylie of FPIIB. Photos show condition of pipe before it was removed and replaced. (K. Fazel - UCIP)01/14/2014:Obstructed siphon breaker.Plant was working during field visit. (P. Amatya - DWR)
FIELD_STRUCT_DESC: *REMOVED* 12-inch steel irrigation pipe through levee, 5.8 feet below crown. 1.5-inch conduit through levee, 4 feet below crown. Pump and gate valve on bank. Switch panel on berm. Siphon breaker in 24-inch CM riser on landward slope. Discharges into 36-inch CM standpipe on landward side. Service pole at landward toe. Pumping Plant No. 3. (App. No. 10851, 2895 - George Van Ruiten). Pipe removed and replaced under Secondary Permit No. 2895-1, 2016 - Van Ruiten Bros (DSID 25472).
FS Date: 9/26/2016

LM Start	21.91	Rating **	M	Issue No.	2593 (cont)
LM End	21.91	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_50192_52587.jpg



WS view: slant pump on steel platform on levee berm.

Photo 2 of 2 : UCIP_FA_2016_50192_52586.jpg



WS view: slant pipe and gate valve at the end of levee berm.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	22.73	Rating **	M	Issue No.	2553
LM End	22.73	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.919717 °	38.919717 °
				-121.829113 °	-121.829113 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:28583 DS_ID:19995 EP_NO: 10851 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Exposed conduit on both slopes of the levee. Plant was working during field visit. Water was leaking from pipe joint near pump.Obstructed siphon breaker in CMP. FIELD_STRUCT_DESC: 14-inch steel irrigation pipe through levee, 6.2 feet below crown. Pump and gate valve on steel platform. Switch panel on berm. Siphon breaker in 24-inch CM riser on landward shoulder. Discharges into 36-inch CM standpipe at landward toe. 2-inch conduit through levee, 5.0 feet below crown. Service pole at landward toe. Pumping plant No. 2. (App. No. 10851, 2895 - Van Ruiten) FS Date: 1/14/2014					

LM Start	22.73	Rating **	M	Issue No.	2553 (cont)
LM End	22.73	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_28583_52627.jpg



WS view: slant pump on steel platform on levee berm.

Photo 2 of 2 : UCIP_FA_2016_28583_52626.jpg



WS view: gate valve beneath slant pipe on levee berm. Water leaking from this pipe (marked).

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	23.65	Rating **	M	Issue No.	2559
LM End	23.65	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.930242 °	38.930242 °
				-121.834956 °	-121.834956 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:28586
DS_ID:20072
EP_NO: 2895
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Most of the pipe exposed on levee slopes. Leaky pump. Obstructed siphon breaker. Not found- Concrete headwall at landward toe.
FIELD_STRUCT_DESC: 14-inch steel irrigation pipe through levee, 6.5 feet below crown. 1-1/2 inch conduit through levee, 4.0 feet below crown. Slant pump and control panel on steel structure on berm. Siphon breaker in 24-inch corrugated metal riser on landward shoulder. 36-inch CM standpipe at landward toe. Service pole at landward toe. Pumping-Plant No. 1. (App. No. 2895 - Van Ruiten) O&M Manual Sac 128, March 1960.
FS Date: 1/14/2014

LM Start	23.65	Rating **	M	Issue No.	2559 (cont)
LM End	23.65	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_28586_52642.jpg



WS view: slant pump on steel platform on levee berm. Oil leaks from the pump (marked). Exposed pipe on the berm.

Photo 2 of 2 : UCIP_FA_2016_28586_52641.jpg



LS view: siphon breaker in CMP riser on levee slope (bottom) and CM standpipe (top) on levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	23.71	Rating **	M	Issue No.	176
LM End	23.71	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.931045 °	38.931045 °
				-121.834795 °	-121.834795 °
DWR ID	DWR_RD1500_01_s_2016_176				
Comment Code					
DE : Debris					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1500_189_176_20160913_00078.jpg



View of the pipes along the toe of the landward side of the levee looking upstream. Spring 2016.

LM Start	23.77	Rating **	M	Issue No.	42
LM End	23.77	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.931838 °	38.931838 °
				-121.834437 °	-121.834437 °
DWR ID	DWR_RD1500_01_s_2012_42				
Comment Code					
BU : Building					
Inspector Comment					
Some equipment at landside toe.					

Photo 1 of 1 : FA_2016_RD1500_189_42_20160913_00033.jpg



View of the barn and equipment on the landward side of the levee looking downstream. Fall 2015.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	24.17	Rating **	M	Issue No.	979
LM End	24.31	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.936419 °	38.938426 °
				-121.830220 °	-121.829365 °
DWR ID	DWR_RD1500_01_s_2012_979				
Comment Code					
DT : Ditch					
Inspector Comment					
Concrete lined ditch located at the levee toe on the landward side of the levee.					

Photo 1 of 1 : FA_2016_RD1500_189_979_20160913_00084.jpg



View of the ditch on the landward side of the levee looking upstream.
Spring 2016.

LM Start	24.31	Rating **	M	Issue No.	2560
LM End	24.31	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.938431 °	38.938431 °
				-121.829350 °	-121.829350 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:28603					
DS_ID:24757					
EP_NO: 10057					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Plant was working during field visit.Leaky pipe near pump.					
FIELD_STRUCT_DESC: 24-inch steel irrigation pipe 6.5 ft below crown; walkway to slant pump. Gate valve on berm. 24-in CM riser with siphon breaker and 4 ft x 7 ft concrete distribution box on landside toe.					
(Source: Leve Log 1/1/1990 and Fieild visit 1/14/2014)					
FS Date: 1/14/2014					

Photo 1 of 2 : UCIP_FA_2016_28603_52667.jpg



WS view: slant pump on steel platform at levee berm. Walkway, exposed pipe, and gate valve on the berm.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	24.31	Rating **	M	Issue No.	2560 (cont)	
LM End	24.31	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.938431 °	38.938431 °	
				-121.829350 °	-121.829350 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:28603						
DS_ID:24757						
EP_NO: 10057						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Plant was working during field visit.Leaky pipe near pump.						
FIELD_STRUCT_DESC: 24-inch steel irrigation pipe 6.5 ft below crown; walkway to slant pump. Gate valve on berm. 24-in CM riser with siphon breaker and 4 ft x 7 ft concrete distribution box on landside toe.						
(Source: Leve Log 1/1/1990 and Fileld visit 1/14/2014)						
FS Date: 1/14/2014						

Photo 2 of 2 : UCIP_FA_2016_28603_52666.jpg



WS view: leaky pipe near pump platform. Pipe leaks from the joint.

LM Start	24.65	Rating **	U	Issue No.	100
LM End	24.65	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.941877 °	38.941877 °
				-121.833217 °	-121.833217 °
DWR ID	DWR_RD1500_01_f_2016_100				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1500_189_100_20160926_00242.jpg



Rodent burrows on landside slope of the levee. Estimated more than 2 cub.ft of soil got out. Fall 2016.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	24.76	Rating **	U	Issue No.	102
LM End	24.76	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.942828 °	38.942828 °
				-121.834811 °	-121.834811 °
DWR ID	DWR_RD1500_01_f_2015_102				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

LM Start	24.76	Rating **	U	Issue No.	102 (cont)
LM End	24.76	Issue Type +	Ma	Location *	LS

Photo 1 of 3 : FA_2016_RD1500_189_102_20160926_00245.jpg



A number of burrows was observed at this site on landward slope. Fall 2016.

Photo 2 of 3 : FA_2016_RD1500_189_102_20160926_00251.jpg



Landside slope perspective view. Fall 2016.

LM Start	24.76	Rating **	U	Issue No.	102 (cont)
LM End	24.76	Issue Type +	Ma	Location *	LS

Photo 3 of 3 : FA_2016_RD1500_189_102_20160913_00054.jpg



View of rodent hole on the landward side of the levee looking upstream. Spring 2016.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	24.82	Rating **	U	Issue No.	101
LM End	24.82	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.943510 °	38.943510 °
				-121.835431 °	-121.835431 °
DWR ID	DWR_RD1500_01_f_2016_101				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 2 : FA_2016_RD1500_189_101_20160926_00246.jpg



Number of burrows with significant amount of soil taken out was observed on LS slope of the levee. Fall 2016.

LM Start	24.82	Rating **	U	Issue No.	101 (cont)
LM End	24.82	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2016_RD1500_189_101_20160926_00248.jpg



Landside slope perspective view. Fall 2016.

LM Start	24.88	Rating **	C	Issue No.	69
LM End	24.88	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.944340 °	38.944340 °
				-121.835790 °	-121.835790 °
DWR ID	DWR_RD1500_01_f_2013_69				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	24.98	Rating **	M	Issue No.	103
LM End	24.98	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.945861 °	38.945861 °
				-121.835964 °	-121.835964 °
DWR ID	DWR_RD1500_01_f_2016_103				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	25.49	Rating **	M	Issue No.	2589
LM End	25.49	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.952803 °	38.952803 °
				-121.837618 °	-121.837618 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:41728 DS_ID:20074 EP_NO: 8765 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Burried Concrete headwall on landside toe. Should verify pipe has been properly abandoned.Utility tag plate on waterside shoulder.No pipe found. FIELD_STRUCT_DESC: *ABANDONED* 4 foot by 4 foot reinforced concrete pipe through levee, 10 feet below the crown. App. No. 8765 has been approved to sleeve a 20-inch pipe through existing pipe from a new pumping facility. (App. No. 8765 & 9175 - Lewis) O&M Manual Sac 128, March 1960. FS Date: 1/15/2014					

Photo 1 of 2 : UCIP_FA_2016_41728_52673.jpg



WS view: utility tag plate on waterside shoulder. No pipe found.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	25.49	Rating **	M	Issue No.	2589 (cont)	
LM End	25.49	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.952803 °		38.952803 °
				-121.837618 °		-121.837618 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:41728 DS_ID:20074 EP_NO: 8765 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Burried Concrete headwall on landside toe. Should verify pipe has been properly abandoned.Utility tag plate on waterside shoulder.No pipe found. FIELD_STRUCT_DESC: *ABANDONED* 4 foot by 4 foot reinforced concrete pipe through levee, 10 feet below the crown. App. No. 8765 has been approved to sleeve a 20-inch pipe through existing pipe from a new pumping facility. (App. No. 8765 & 9175 - Lewis) O&M Manual Sac 128, March 1960. FS Date: 1/15/2014						

Photo 2 of 2 : UCIP_FA_2016_41728_52672.jpg



LS view: concrete headwall on landside toe. No pipe found.

LM Start	25.68	Rating **	U	Issue No.	104
LM End	25.68	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.955445 °	38.955445 °
				-121.837473 °	-121.837473 °
DWR ID	DWR_RD1500_01_f_2016_104				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1500_189_104_20160926_00253.jpg



More than 2 cu.ft. of soil was observed around burrows on LS slope of the levee. Fall 2016.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	25.98	Rating **	C	Issue No.	179
LM End	25.98	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.958283 °	38.958283 °
				-121.833231 °	-121.833231 °
DWR ID	DWR_RD1500_01_s_2016_179				
Comment Code					
PR : Prunings					
Inspector Comment					

No Photos

LM Start	26.52	Rating **	M	Issue No.	2564
LM End	26.52	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.964915 °	38.964915 °
				-121.833675 °	-121.833675 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:28629					
DS_ID:20014					
EP_NO: 10057					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: May need proper abandonment.					
FIELD_STRUCT_DESC: Abandoned 24-inch pipe through levee, 7.1					
feet below the crown, slant pump on WS. O&M Manual Sac 128, March					
1960. (ABO No. 10057)					
FS Date: 1/15/2014					

Photo 1 of 2 : UCIP_FA_2016_28629_52709.jpg



WS view: abandoned 24" and 30" steel pipe on river bank.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	26.52	Rating **	M	Issue No.	2564 (cont)
LM End	26.52	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.964915 °	38.964915 °
				-121.833675 °	-121.833675 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:28629 DS_ID:20014 EP_NO: 10057 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: May need proper abandonment. FIELD_STRUCT_DESC: Abandoned 24-inch pipe through levee, 7.1 feet below the crown, slant pump on WS. O&M Manual Sac 128, March 1960. (ABO No. 10057) FS Date: 1/15/2014					

Photo 2 of 2 : UCIP_FA_2016_28629_52708.jpg



LS view: abandoned CMP risers on levee toe.

LM Start	26.52	Rating **	M	Issue No.	2563
LM End	26.52	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.964931 °	38.964931 °
				-121.833682 °	-121.833682 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:28628 DS_ID:20013 EP_NO: 10057 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: May need proper abandonment. FIELD_STRUCT_DESC: Abandoned 30-inch pipe through levee, 7.1 feet below the crown, pump on WS. O&M Manual Sac 128, March 1960. (ABO No. 10057) FS Date: 1/15/2014					

Photo 1 of 2 : UCIP_FA_2016_28628_52705.jpg



WS view: abandoned 24" and 30" steel pipe on river bank.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	26.52	Rating **	M	Issue No.	2563 (cont)
LM End	26.52	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.964931 °	38.964931 °
				-121.833682 °	-121.833682 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:28628 DS_ID:20013 EP_NO: 10057 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: May need proper abandonment. FIELD_STRUCT_DESC: Abandoned 30-inch pipe through levee, 7.1 feet below the crown, pump on WS. O&M Manual Sac 128, March 1960. (ABO No. 10057) FS Date: 1/15/2014					

Photo 2 of 2 : UCIP_FA_2016_28628_52704.jpg



LS view: abandoned CMP risers on levee toe.

LM Start	26.74	Rating **	M	Issue No.	2565
LM End	26.74	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.968093 °	38.968093 °
				-121.833708 °	-121.833708 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:28631 DS_ID:20015 EP_NO: 10052 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Obstructed siphon breaker. Leaky pump. FIELD_STRUCT_DESC: 18-inch steel irrigation pipe through levee, 7.1 feet below crown. 2-inch conduit through levee, 5.5 feet below crown. Wood walkway to slant pump and gate valve on wooden pump platform mounted on steel pile structure on berm. Siphon breaker in 24-inch CM riser on landward slope. Meter pole at landward toe. (ABO No. 10052 - Lamb) (RM 112.29) O&M Manual Sac 128, March 1960. FS Date: 1/15/2014					

Photo 1 of 2 : UCIP_FA_2016_28631_52720.jpg



WS view: slant pump and gate valves on wooden platform at levee berm. Wooden walkway to the pump.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	26.74	Rating **	M	Issue No.	2565 (cont)
LM End	26.74	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.968093 °	38.968093 °
				-121.833708 °	-121.833708 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:28631 DS_ID:20015 EP_NO: 10052 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Obstructed siphon breaker. Leaky pump. FIELD_STRUCT_DESC: 18-inch steel irrigation pipe through levee, 7.1 feet below crown. 2-inch conduit through levee, 5.5 feet below crown. Wood walkway to slant pump and gate valve on wooden pump platform mounted on steel pile structure on berm. Siphon breaker in 24-inch CM riser on landward slope. Meter pole at landward toe. (ABO No. 10052 - Lamb) (RM 112.29) O&M Manual Sac 128, March 1960. FS Date: 1/15/2014					

Photo 2 of 2 : UCIP_FA_2016_28631_52719.jpg



LS view: siphon breaker in CMP riser on levee slope (bottom) and concrete distribution box on levee toe.

LM Start	26.99	Rating **	M	Issue No.	105
LM End	27.28	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.970964 °	38.972455 °
				-121.830928 °	-121.826024 °
DWR ID	DWR_RD1500_01_f_2016_105				
Comment Code					
AT : Agricultural tilling					
Inspector Comment					
Cut into toe at landside due to agricultural activity.					

Photo 1 of 1 : FA_2016_RD1500_189_105_20160926_00254.jpg



Levee toe on landside has been cut due to agricultural activity. Fall 2016.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	27.31	Rating **	M	Issue No.	983
LM End	27.44	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.972552 °	38.972924 °
				-121.825574 °	-121.823198 °
DWR ID	DWR_RD1500_01_s_2015_983				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1500_189_983_20160913_00085.jpg



View of the ditch on the landward side of the levee looking downstream.
Spring 2016.

LM Start	28.23	Rating **	M	Issue No.	38
LM End	29.23	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.983119 °	38.988538 °
				-121.819923 °	-121.806445 °
DWR ID	DWR_RD1500_01_s_2012_38				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1500_189_38_20160913_00032.jpg



View of the ditch on the landward side of the levee looking upstream.
Spring 2016.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	28.94	Rating **	A/W	Issue No.	84
LM End	29.17	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.988072 °	38.988572 °
				-121.811737 °	-121.807520 °
DWR ID	DWR_RD1500_01_s_2012_84				
Comment Code					
V8 : Environmental Requirements.					
Inspector Comment					

Photo 1 of 2 : FA_2016_RD1500_189_84_20160913_00050.jpg



View of the revegetation site on the waterward side of the levee looking upstream. Spring 2016.

LM Start	28.94	Rating **	A/W	Issue No.	84 (cont)
LM End	29.17	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2016_RD1500_189_84_20160913_00051.jpg



Sign for the revegetation site. Spring 2016.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	29.91	Rating **	M	Issue No.	2595
LM End	29.91	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.993006 °	38.993006 °
				-121.796025 °	-121.796025 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50194
DS_ID:20113
EP_NO: 10054
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/29/2016: Found no evidence of leakage or subsidence. CMP risers are both silted in and need lids. Need a name change permit for new owner Brad Howalt. Possible sink hole in alignment with pipes on crown has been covered with concrete. Crossing has been downgraded from Urgent to Non-Urgent. (K. Fazel - UCIP)01/15/2014:Levee slope erosion due to leakage from siphon breaker. Water leaking from pipe near distribution box on landside levee toe. Overhead powerline. (P. Amatya - DWR)
FIELD_STRUCT_DESC: 2 of 2: 16-inch steel irrigation pipe through the levee, 5 feet below the crown. Siphon breaker in a 24-inch corrugated metal (CM) riser on the landside (LS) shoulder. Another 20-inch steel irrigation pipe through the levee at this location, 5 feet below the crown. Another siphon breaker in a 24-inch CM riser on the LS shoulder. Slant pumps in a CM pump house mounted on a steel pile structure on the berm. 4-foot by 7-foot concrete inspection box for a Hersey-Sparling water meter on the berm in front of the pump house. Flap gates in a 9.7-foot by 10.6-foot (outside dimensions) concrete distribution box at the LS toe. (Automatic Board Order (ABO) issued as Permit No. 10054, 1974 - Lerner). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960 (HLM 30.29)].
FS Date: 8/29/2016

LM Start	29.91	Rating **	M	Issue No.	2595 (cont)
LM End	29.91	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_50194_51834.jpg



WS view: two slant pumps on wooden platform on levee berm.

Photo 2 of 2 : UCIP_FA_2016_50194_51833.jpg



LS view: CMPs with leaky siphon breakers. Slope erosion and excessive vegetation on levee slope.

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	29.91	Rating **	M	Issue No.	2599
LM End	29.91	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.993006 °	38.993006 °
				-121.796025 °	-121.796025 °
DWR ID					

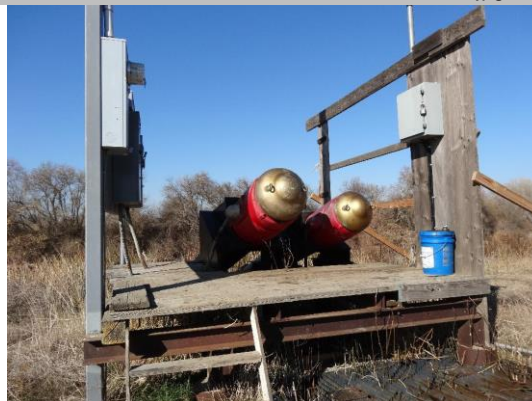
Comment Code

Inspector Comment

FS_ID:50201
DS_ID:20084
EP_NO: 10054
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/29/2016: Found no evidence of leakage or subsidence. CMP risers are both silted in and need lids. Need a name change permit for new owner Brad Howalt. Possible sink hole in alignment with pipes on crown has been covered with concrete. Crossing has been downgraded from Urgent to Non-Urgent. (K. Fazel - UCIP)01/15/2014:Levee slope erosion due to leakage from siphon breaker.Water leaking from pipe near distribution box on landside levee toe.Overhead powerline. (P. Amatya - DWR)
FIELD_STRUCT_DESC: 1 of 2: 20-inch steel irrigation pipe through the levee, 5 feet below the crown. Siphon breaker in a 24-inch corrugated metal (CM) riser on the landside (LS) shoulder. Another 16-inch steel irrigation pipe through the levee at this location, 5 feet below the crown. Another siphon breaker in a 24-inch CM riser on the LS shoulder. Slant pumps in a CM pump house mounted on a steel pile structure on the berm. 4-foot by 7-foot concrete inspection box for a Hersey-Sparling water meter on the berm in front of the pump house. Flap gates in a 9.7-foot by 10.6-foot (outside dimensions) concrete distribution box at the LS toe. (Automatic Board Order (ABO) issued as Permit No. 10054, 1974 - Larner). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960 (HLM 30.29)].
FS Date: 8/29/2016

LM Start	29.91	Rating **	M	Issue No.	2599 (cont)
LM End	29.91	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_50201_52855.jpg



WS view: slant pumps and control boxes on steel platform at levee berm.

Photo 2 of 2 : UCIP_FA_2016_50201_52854.jpg



LS view: siphon breakers in CMP riser on levee slope and distribution box on levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	30.07	Rating **	M	Issue No.	2594
LM End	30.07	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.994988 °	38.994988 °
				-121.794484 °	-121.794484 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50193 DS_ID:20107 EP_NO: 6169 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/29/2016: Pipe and pump are leaking oil. Could not find evidence of any water leak. Field hand may have spilled oil as there is a puddle of oil beneath the pump. Crossing downgraded from Urgent to Non-Urgent. (K. Fazel - UCIP)01/15/2014: Leaky pump and excessive vegetation observed along pipe alignment on waterside slope of the levee. It needs more investigations. May have new permit for slant pump. (P. Amatya - DWR) FIELD_STRUCT_DESC: 30-inch reinforced concrete-encased steel irrigation pipe through the levee, 15.5 feet below the crown. Slant pump and switch panel on steel pile structure at edge of the berm. Slide gate in a 2.5-foot by 3.5-foot (inside dimensions) concrete box on the berm. 6-foot by 8-foot concrete distribution box at the landside (LS) toe. 2-inch conduit through the levee, 2.5 feet below the crown. (Permit No. 6169, 1968 - Butler). Pipe through levee was initially installed in 1952. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 128, March 1960 (HLM 30.46)]. FS Date: 8/29/2016					

LM Start	30.07	Rating **	M	Issue No.	2594 (cont)
LM End	30.07	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_50193_51827.jpg



WS view: leaky slant pump on levee berm.

Photo 2 of 2 : UCIP_FA_2016_50193_51826.jpg



WS view: concrete surge box with slide gate on levee berm.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	30.22	Rating **	M	Issue No.	45
LM End	30.22	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.997027 °	38.997027 °
				-121.794755 °	-121.794755 °
DWR ID	DWR_RD1500_01_s_2012_45				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1500_189_45_20160913_00034.jpg



View of the groundcover on the landward side of the levee looking downstream. Spring 2016.

LM Start	30.60	Rating **	A/W	Issue No.	22
LM End	30.75	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.999745 °	39.001413 °
				-121.800898 °	-121.802889 °
DWR ID	DWR_RD1500_01_s_2016_22				
Comment Code					
Inspector Comment					
2000 - Eroding, vertical berm slope over a vertical cohesive toe; slow erosion but getting close to the toe. 2002 - Erosion is getting close to the levee, still eroding with some new small slumps. 2004 - Some minor new erosion. 2006 - Some new erosion, cleaned off older scars and slump faces. 2008 - New, small, partial rotational failure. 2011 - Some new minor erosion. 2015: No observed changes. [2015 Site ID: SAC_116-0_L]					

Photo 1 of 1 : FA_2016_RD1500_189_22_20160913_00019.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	30.87	Rating **	M	Issue No.	2582
LM End	30.87	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.002960 °	39.002960 °
				-121.803736 °	-121.803736 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:28144					
DS_ID:20000					
EP_NO: 15916					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Surface erosion due to leaky pressure breaker on landside slope.					
FIELD_STRUCT_DESC: 18-inch steel irrigation pipe through levee.					
Siphon breaker in 24-inch CM riser on landward slope. Discharges into 6 foot by 8 foot I.D. concrete distribution box at landward toe. (App. No. 15916 - Butler) 18-inch replaced original 12-inch pipe (10034 - Butler)					
FS Date: 1/15/2014					

Photo 1 of 2 : UCIP_FA_2016_28144_51812.jpg



WS view: pump in CM pump house on levee shoulder. Looks abandoned.

LM Start	30.87	Rating **	M	Issue No.	2582 (cont)
LM End	30.87	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_FA_2016_28144_51811.jpg



LS view: obstructed and leaked pressure breaker in CMP on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspection Report By Mile - Fall 2016


Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

Photo 1 of 1 : FA_2016_RD1500_189_15_20160913_00014.jpg



USACE 2013 Photo #1

Photo 1 of 2 : FA_2016_RD1500_189_86_20160913_00052.jpg



The control unit for pizometers installed in 2012, photo taken spring 2012.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	31.54	Rating **	A/W	Issue No.	86 (cont)	
LM End	31.54	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Underseepage Relief Wells			39.006687 °		39.006687 °
				-121.814967 °		-121.814967 °
DWR ID	DWR_RD1500_01_s_2016_86					
Comment Code						
Inspector Comment						

Photo 2 of 2 : FA_2016_RD1500_189_86_20160913_00053.jpg



View of the pizometer on the landward side of the levee. Spring 2016.

LM Start	31.56	Rating **	C	Issue No.	188
LM End	31.56	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.006641 °	39.006641 °
				-121.815219 °	-121.815219 °
DWR ID	DWR_RD1500_01_s_2016_188				
Comment Code					
BU : Building					
Inspector Comment					
Bee hives are at the toe of the levee.					

No Photos

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	31.61	Rating **	M	Issue No.	2581
LM End	31.61	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.006484 °	39.006484 °
				-121.816168 °	-121.816168 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:28143 DS_ID:20077 EP_NO: 9657 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Looks abandoned. May need proper abandonement.Overhead power line. FIELD_STRUCT_DESC: *ABANDONED* 20-inch diameter steel pipe through levee, 15.0 feet below crown. Pump on elevated structure. Slide gate in riser, concrete surge box on waterward slope. Switch panel on berm. (App. Nos. 13536 & 13941 - Niechen 10/82) Discharges into 36-inch I.D. concrete standpipe on landward side. (App. No. 9657 ABO No. 10030 - Bell) O&M Manual Sac 128, March 1960. FS Date: 1/15/2014					

Photo 1 of 2 : UCIP_FA_2016_28143_51805.jpg



WS view: concrete surge box on levee slope.

LM Start	31.61	Rating **	M	Issue No.	2581 (cont)
LM End	31.61	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_28143_51804.jpg



WS view: abandoned walkway, pipe, and pump on river bank.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	32.42	Rating **	M	Issue No.	60
LM End	32.57	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.013749 °	39.015620 °
				-121.825065 °	-121.823461 °
DWR ID	DWR_RD1500_01_s_ 2012_60				
Comment Code					
DT : Ditch					
Inspector Comment					
Ditch is located at the toe of the levee.					

Photo 1 of 1 : FA_2016_RD1500_189_60_20160913_00041.jpg



View of the ditch on the landward side of the levee looking upstream.
Spring 2016.

LM Start	32.55	Rating **	M	Issue No.	2578
LM End	32.55	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.015277 °	39.015277 °
				-121.823735 °	-121.823735 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:28943					
DS_ID:20018					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Pipe leaks near pump through a hole in the pipe.					
Needs repair.An electric conduit through the levee. Concrete					
distribution box on landside levee toe. Slide gate in CMP on waterside					
slope.					
FIELD_STRUCT_DESC: 30-inch pipe and electric conduit through					
levee, 14.3 feet below the crown, Pump and headwall on waterside.					
Slide gate in CMP on waterside slope. Electric control box on waterside.					
Concrete distribution box on landside levee toe. O&M Manual Sac 128,					
March 1960.					
FS Date: 1/15/2014					

Photo 1 of 2 : UCIP_FA_2016_28943_53222.jpg



WS view: power control panel and CMP riser with slide gate on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	32.55	Rating **	M	Issue No.	2578 (cont)	
LM End	32.55	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.015277 °	39.015277 °	
				-121.823735 °	-121.823735 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:28943 DS_ID:20018 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe leaks near pump through a hole in the pipe. Needs repair.An electric conduit through the levee. Concrete distribution box on landside levee toe. Slide gate in CMP on waterside slope. FIELD_STRUCT_DESC: 30-inch pipe and electric conduit through levee, 14.3 feet below the crown, Pump and headwall on waterside. Slide gate in CMP on waterside slope. Electric control box on waterside. Concrete distribution box on landside levee toe. O&M Manual Sac 128, March 1960. FS Date: 1/15/2014						

Photo 2 of 2 : UCIP_FA_2016_28943_53221.jpg



WS view: pump on river bank protected by concrete headwall. Leaky pipe near pump.

LM Start	32.96	Rating **	M	Issue No.	46
LM End	32.96	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.020550 °	39.020550 °
				-121.820315 °	-121.820315 °
DWR ID	DWR_RD1500_01_s_2012_46				
Comment Code					
BU : Building					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1500_189_46_20160913_00035.jpg



The building is within the easement of the levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 1500 Sutter Basin

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	33.13	Rating **	M	Issue No.	2580
LM End	33.13	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.022938 °	39.022938 °
				-121.820717 °	-121.820717 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:28953 DS_ID:20080 EP_NO: 5617 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Not found- slide gate in 54 inch corrugated metal riser on waterside berm.Two 16-inch steel pipes (looks new). Leaky pipe near pump.Plant was working during field visit.Needs more info from LMA. There may be a new permit. FIELD_STRUCT_DESC: 1 of 2. Two 16-inch steel irrigation pipes and conduit through levee, 19.0 feet below crown. Two slant pumps on elevated pump platform on waterside. Gate valves and concrete headwall at landward berm. Meter pole at toe. Discharges into landside ditch. 1-3/4 conduit through levee. (App. No. 5617- Oji Bros.) O&M Manual Sac 128, March 1960. FS Date: 1/15/2014					

LM Start	33.13	Rating **	M	Issue No.	2580 (cont)
LM End	33.13	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_28953_53256.jpg



WS view: slant pumps on steel platform in shed on berm.

Photo 2 of 2 : UCIP_FA_2016_28953_53255.jpg



WS view: closer view of slant pumps on steel platform in shed on berm.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	09/20/2016 09/21/2016	Oleg Yakimov

LM Start	33.13	Rating **	M	Issue No.	2579
LM End	33.13	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.022956 °	39.022956 °
				-121.820716 °	-121.820716 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:28952
DS_ID:24758
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Not found- slide gate in 54 inch corrugated metal riser on waterside berm. Two 16-inch steel pipes (looks new). Leaky pipe near pump. Plant was working during field visit. Needs more info from LMA. There may be a new permit.
FIELD_STRUCT_DESC: 2 of 2. Two 16-inch steel irrigation pipe through the levee. Two slant pumps on steel platform and under the shed. Two air vents on waterside levee shoulder. Two pipes with gate valves discharge water into irrigation ditch. Service pole on landside toe. Previously only a 30-inch steel pipe through the levee and slide gate in CMP riser on waterside.
FS Date: 1/15/2014

LM Start	33.13	Rating **	M	Issue No.	2579 (cont)
LM End	33.13	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_28952_53249.jpg



WS view: pump platform and shed on levee berm.

Photo 2 of 2 : UCIP_FA_2016_28952_53248.jpg



WS view: two slant pumps on steel platform at waterside berm.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Reclamation District No. 1500 Sutter Basin

Waterway			Bank	Unit Miles
Unit No. 02 Sutter Bypass			Right	20.72
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M *	
Date of Inspection	3/10/2016 - 3/10/2016		9/21/2016 - 9/21/2016	
DWR Inspector	Jai Lor		Oleg Yakimov	
Accompanied By			Pavel Kazi DWR	

* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- completion of the inspection
- any changes other than the results of normal maintenance
- corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Reclamation District No. 1500 Sutter Basin

Acceptable vegetation on both levee slopes. Fall 2016.

Page 1 of 5

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	09/21/2016 09/21/2016	Oleg Yakimov

LM Start	9.73	Rating **	M	Issue No.	19
LM End	9.73	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.891630 °	38.891630 °
				-121.636393 °	-121.636393 °
DWR ID	DWR_RD1500_02_s_2016_19				
Comment Code					
TR : Tree or limb					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1500_190_19_20160913_00009.jpg



View of the fallen tree on the waterward side of the levee looking downstream. Spring 2016.

LM Start	14.13	Rating **	U	Issue No.	4
LM End	14.13	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Underseepage Relief Wells			38.947628 °	38.947628 °
				-121.669764 °	-121.669764 °
DWR ID	DWR_RD1500_02_s_2012_4				
Comment Code					
Inspector Comment					
Concrete pad and PVC underneath is broken.					

Photo 1 of 3 : FA_2016_RD1500_190_4_20160926_00012.jpg



View of underseepage relief well. Concrete pad as well as PVC pipes underneath are destroyed apparently by an attempt to pull out the head of the well. Fall 2016.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	09/21/2016 09/21/2016	Oleg Yakimov

LM Start	14.13	Rating **	U	Issue No.	4 (cont)	
LM End	14.13	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Underseepage Relief Wells			38.947628 °		38.947628 °
				-121.669764 °		-121.669764 °
DWR ID	DWR_RD1500_02_s_2012_4					
Comment Code						
Inspector Comment						
Concrete pad and PVC underneath is broken.						

Photo 2 of 3 : FA_2016_RD1500_190_4_20160926_00011.jpg



Another view of damaged well. Fall 2016.

LM Start	14.13	Rating **	U	Issue No.	4 (cont)
LM End	14.13	Issue Type +	Ma	Location *	LS

Photo 3 of 3 : FA_2016_RD1500_190_4_20160913_00001.jpg



View of the relief well at historical boil 12. Fall 2015.

LM Start	14.22	Rating **	M	Issue No.	2
LM End	14.22	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.948650 °	38.948650 °
				-121.670842 °	-121.670842 °
DWR ID	DWR_RD1500_02_f _ 2016_2				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1500_190_2_20160926_00013.jpg



View of WS slope of the levee. Fall 2016.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	09/21/2016 09/21/2016	Oleg Yakimov

LM Start	14.47	Rating **	A/W	Issue No.	11
LM End	14.47	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Underseepage Relief Wells			38.951413 °	38.951413 °
				-121.673856 °	-121.673856 °
DWR ID	DWR_RD1500_02_s_2012_11				
Comment Code					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1500_190_11_20160913_00004.jpg



A relief well at historical boil 16. Fall 2015.

LM Start	18.17	Rating **	A/W	Issue No.	13
LM End	18.17	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Underseepage Relief Wells			38.987031 °	38.987031 °
				-121.725049 °	-121.725049 °
DWR ID	DWR_RD1500_02_s_2012_13				
Comment Code					
Inspector Comment					

Photo 1 of 2 : FA_2016_RD1500_190_13_20160913_00006.jpg



Two of four drains on the landward side of the levee. Fall 2015.

LM Start	18.17	Rating **	A/W	Issue No.	13 (cont)
LM End	18.17	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2016_RD1500_190_13_20160913_00007.jpg



View of the 4 drains at the levee toe on the landward side. Fall 2015.

*** Location**
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

**** Rating**
 A : Acceptable N : Not Inspected/Rated
 M : Minimally Acceptable C : Corrected
 U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	09/21/2016 09/21/2016	Oleg Yakimov

LM Start	18.41	Rating **	A/W	Issue No.	15
LM End	18.41	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Underseepage Relief Wells			38.989710 °	38.989710 °
				-121.727691 °	-121.727691 °
DWR ID	DWR_RD1500_02_s_2015_15				
Comment Code					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1500_190_15_20160913_00008.jpg



View of the toe drainage at the landward toe berm. Fall 2015.

LM Start	18.55	Rating **	C	Issue No.	6
LM End	18.55	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.991454 °	38.991454 °
				-121.729145 °	-121.729145 °
DWR ID	DWR_RD1500_02_s_2016_6				
Comment Code					
TR : Tree or limb					
Inspector Comment					

No Photos

LM Start	19.76	Rating **	C	Issue No.	5
LM End	19.76	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.007876 °	39.007876 °
				-121.736459 °	-121.736459 °
DWR ID	DWR_RD1500_02_s_2016_5				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Tree has fallen on the waterward slope.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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